

Siemens 0022 Seq Listing.txt

<110> wirtz, et al.

<120> METHODS AND COMPOSITIONS FOR THE PREDICTION, DIAGNOSIS, PROGNOSIS, PREVENTION
AND TREATMENT OF MALIGNANT NEOPLASIA

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<170> PatentIn version 3.1

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Siemens 0022 Seq Listing.txt

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Siemens 0022 Seq Listing.txt

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Siemens 0022 Seq Listing.txt

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Siemens 0022 Seq Listing.txt

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<213> Homo sapiens

Siemens 0022 Seq Listing.txt

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Siemens 0022 Seq Listing.txt

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<213> Homo sapiens

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Siemens 0022 Seq Listing.txt

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Siemens 0022 Seq Listing.txt

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Siemens 0022 Seq Listing.txt

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Siemens 0022 Seq Listing.txt

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Siemens 0022 Seq Listing.txt

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<213> Homo sapiens

Siemens 0022 Seq Listing.txt

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Siemens 0022 Seq Listing.txt

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taagtttttt	aatcatgtat	gttcagacca	ccgtcagtaa	attcactgag	taaagtctgt	6360
aaatccccaa	tattactctt	taagatacac	aatatgtgga	aggctcccag	ctctctggct	6420
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<210> 25

<211> 1871

<212> DNA

Siemens 0022 Seq Listing.txt

<213> Homo sapiens

<400> 25

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atgtctgctt	ccagtgttgg	aagtggttat	gggggaagtg	cctttggctt	tggagccagc	180
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tccggaagtt	ccatggcagg	aggactgggt	gctggttatg	ggagagccct	gggtggaggt	300
agctttggag	ggctggggat	gggatttggg	ggcagcccag	gaggtggctc	tctaggtatt	360
ctctcgggca	atgatggagg	ccttctttct	ggatcagaaa	aagaaactat	gcaaaatctt	420
aatgatagat	tagcttccta	cctggataag	gtgcgagctc	tagaagaggc	taatactgag	480
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gttccatttt	ctttggattc	cttattcaca	ttgaatccct	tttgcccttc	tgaaacaata	1680
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<210> 26

<211> 1447

<212> DNA

<213> Homo sapiens

<400> 26

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gaacgaccgc	ctggccagct	acctggagaa	ggtgcgtcac	gtggagcggg	acaacgcgga	120
gctggagaac	ctcatccggg	agcggcttca	gcagcaggag	cccttgctgt	gccccagcta	180
ccagtcctac	ttcaagacca	ttgaggagct	ccagcagaag	atcctgtgca	gcaagtctga	240
gaatgccagg	ctgggtggtgc	agatcgacaa	tgccaagctg	gctgcagatg	acttcagaac	300
caagtaccag	acggagcagt	ccctgcggca	gctgggtggag	tccgacatca	acagcctgcg	360
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ggtcctgaac	gagaccagga	atcagtatga	ggccctgggtg	gaaaccaacc	gcagggaagt	600
ggagcaattg	ttcgccacgc	agaccgagga	gctgaacaag	cagggtggtat	ccagctcgga	660
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Siemens 0022 Seq Listing.txt

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atcctgtgtc accaatcctt gtggtcctcg ttcccgtgt gggccttgca acacctttgg 1080
gtactagata ccctggggcc agcagaagta tagcatgaag acagaactac catcgggtggg 1140
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gttgagctg tgacagtggc atacgaggtg ttttgttctc tctgctgctt ctacctttat 1380
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<210> 27

<211> 261

<212> PRT

<213> Homo sapiens

<400> 27

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Met Asn Pro Asn Cys Ala Arg Cys Gly Lys Ile Val Tyr Pro Thr Glu
1      5      10      15
Lys Val Asn Cys Leu Asp Lys Phe Trp His Lys Ala Cys Phe His Cys
20     25     30
Glu Thr Cys Lys Met Thr Leu Asn Met Lys Asn Tyr Lys Gly Tyr Glu
35     40     45
Lys Lys Pro Tyr Cys Asn Ala His Tyr Pro Lys Gln Ser Phe Thr Met
50     55     60
Val Ala Asp Thr Pro Glu Asn Leu Arg Leu Lys Gln Gln Ser Glu Leu
65     70     75     80
Gln Ser Gln Val Arg Tyr Lys Glu Glu Phe Glu Lys Asn Lys Gly Lys
85     90     95
Gly Phe Ser Val Ala Asp Thr Pro Glu Leu Gln Arg Ile Lys Lys
100    105    110
Thr Gln Asp Gln Ile Ser Asn Ile Lys Tyr His Glu Glu Phe Glu Lys
115    120    125
Ser Arg Met Gly Pro Ser Gly Gly Glu Gly Met Glu Pro Glu Arg Arg
130    135    140
Asp Ser Gln Asp Gly Ser Ser Tyr Arg Arg Pro Leu Glu Gln Gln Gln
145    150    155    160
Pro His His Ile Pro Thr Ser Ala Pro Val Tyr Gln Gln Pro Gln Gln
165    170    175
Gln Pro Val Ala Gln Ser Tyr Gly Gly Tyr Lys Glu Pro Ala Ala Pro
180    185    190
Val Ser Ile Gln Arg Ser Ala Pro Gly Gly Gly Lys Arg Tyr Arg
195    200    205
Ala Val Tyr Asp Tyr Ser Ala Ala Asp Glu Asp Glu Val Ser Phe Gln
210    215    220
Asp Gly Asp Thr Ile Val Asn Val Gln Gln Ile Asp Asp Gly Trp Met
225    230    235    240
Tyr Gly Thr Val Arg Thr Gly Asp Thr Gly Met Leu Pro Ala Asn
245    250    255
Tyr Val Glu Ala Ile
260

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<210> 28

<211> 478

<212> PRT

<213> Homo sapiens

<400> 28

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Met Val Gln Lys Thr Ser Met Ser Arg Gly Pro Tyr Pro Pro Ser Gln
1      5      10      15

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Siemens 0022 Seq Listing.txt

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Glu Ile Pro Met Glu Val Phe Asp Pro Ser Pro Gln Gly Lys Tyr Ser
20 25 30
Lys Arg Lys Gly Arg Phe Lys Arg Ser Asp Gly Ser Thr Ser Ser Asp
35 40 45
Thr Thr Ser Asn Ser Phe Val Arg Gln Gly Ser Ala Glu Ser Tyr Thr
50 55 60
Ser Arg Pro Ser Asp Ser Val Ser Leu Glu Asp Arg Glu Ala
65 70 75 80
Leu Arg Lys Glu Ala Glu Arg Gln Ala Leu Ala Gln Leu Glu Lys Ala
85 90 95
Lys Thr Lys Pro Val Ala Phe Ala Val Arg Thr Asn Val Gly Tyr Asn
100 105 110
Pro Ser Pro Gly Asp Glu Val Pro Val Gln Gly Val Ala Ile Thr Phe
115 120 125
Glu Pro Lys Asp Phe Leu His Ile Lys Glu Lys Tyr Asn Asn Asp Trp
130 135 140
Trp Ile Gly Arg Leu Val Lys Glu Gly Cys Glu Val Gly Phe Ile Pro
145 150 155 160
Ser Pro Val Lys Leu Asp Ser Leu Arg Leu Leu Gln Glu Gln Lys Leu
165 170 175
Arg Gln Asn Arg Leu Gly Ser Ser Lys Ser Gly Asp Asn Ser Ser Ser
180 185 190
Ser Leu Gly Asp Val Val Thr Gly Thr Arg Arg Pro Thr Pro Pro Ala
195 200 205
Ser Ala Lys Gln Lys Gln Lys Ser Thr Glu His Val Pro Pro Tyr Asp
210 215 220
Val Val Pro Ser Met Arg Pro Ile Ile Leu Val Gly Pro Ser Leu Lys
225 230 235 240
Gly Tyr Glu Val Thr Asp Met Met Gln Lys Ala Leu Phe Asp Phe Leu
245 250 255
Lys His Arg Phe Asp Gly Arg Ile Ser Ile Thr Arg Val Thr Ala Asp
260 265 270
Ile Ser Leu Ala Lys Arg Ser Val Leu Asn Asn Pro Ser Lys His Ile
275 280 285
Ile Ile Glu Arg Ser Asn Thr Arg Ser Ser Leu Ala Glu Val Gln Ser
290 295 300
Glu Ile Glu Arg Ile Phe Glu Leu Ala Arg Thr Leu Gln Leu Val Ala
305 310 315 320
Leu Asp Ala Asp Thr Ile Asn His Pro Ala Gln Leu Ser Lys Thr Ser
325 330 335
Leu Ala Pro Ile Ile Val Tyr Ile Lys Ile Thr Ser Pro Lys Val Leu
340 345 350
Gln Arg Leu Ile Lys Ser Arg Gly Lys Ser Gln Ser Lys His Leu Asn
355 360 365
Val Gln Ile Ala Ala Ser Glu Lys Leu Ala Gln Cys Pro Pro Glu Met
370 375 380
Phe Asp Ile Ile Leu Asp Glu Asn Gln Leu Glu Asp Ala Cys Glu His
385 390 395 400
Leu Ala Glu Tyr Leu Glu Ala Tyr Trp Lys Ala Thr His Pro Pro Ser
405 410 415
Ser Thr Pro Pro Asn Pro Leu Leu Asn Arg Thr Met Ala Thr Ala Ala
420 425 430
Leu Arg Arg Ser Pro Ala Pro Val Ser Asn Leu Gln Val Gln Val Leu
435 440 445
Thr Ser Leu Arg Arg Asn Leu Gly Phe Trp Gly Gly Leu Glu Ser Ser
450 455 460
Gln Arg Gly Ser Val Val Pro Gln Glu Gln Glu His Ala Met
465 470 475

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<210> 29

<211> 196

<212> PRT

Siemens 0022 Seq Listing.txt

<213> Homo sapiens

<400> 29

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Met Ser Met Leu Arg Leu Gln Lys Arg Leu Ala Ser Ser Val Leu Arg
1      5      10      15
Cys Gly Lys Lys Val Trp Leu Asp Pro Asn Glu Thr Asn Glu Ile
20      25      30
Ala Asn Ala Asn Ser Arg Gln Gln Ile Arg Lys Leu Ile Lys Asp Gly
35      40      45
Leu Ile Ile Arg Lys Pro Val Thr Val His Ser Arg Ala Arg Cys Arg
50      55      60
Lys Asn Thr Leu Ala Arg Arg Lys Gly Arg His Met Gly Ile Gly Lys
65      70      75      80
Arg Lys Gly Thr Ala Asn Ala Arg Met Pro Glu Lys Val Thr Trp Met
85      90      95
Arg Arg Met Arg Ile Leu Arg Arg Leu Leu Arg Arg Tyr Arg Glu Ser
100      105      110
Lys Lys Ile Asp Arg His Met Tyr His Ser Leu Tyr Leu Lys Val Lys
115      120      125
Gly Asn Val Phe Lys Asn Lys Arg Ile Leu Met Glu His Ile His Lys
130      135      140
Leu Lys Ala Asp Lys Ala Arg Lys Lys Leu Leu Ala Asp Gln Ala Glu
145      150      155      160
Ala Arg Arg Ser Lys Thr Lys Glu Ala Arg Lys Arg Arg Glu Glu Arg
165      170      175
Leu Gln Ala Lys Lys Glu Glu Ile Ile Lys Thr Leu Ser Lys Glu Glu
180      185      190
Glu Thr Lys Lys
195

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<210> 30

<211> 1566

<212> PRT

<213> Homo sapiens

<400> 30

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Met Ser Ser Leu Leu Glu Arg Leu His Ala Lys Phe Asn Gln Asn Arg
1      5      10      15
Pro Trp Ser Glu Thr Ile Lys Leu Val Arg Gln Val Met Glu Lys Arg
20      25      30
Val Val Met Ser Ser Gly Gly His Gln His Leu Val Ser Cys Leu Glu
35      40      45
Thr Leu Gln Lys Ala Leu Lys Val Thr Ser Leu Pro Ala Met Thr Asp
50      55      60
Arg Leu Glu Ser Ile Ala Gly Gln Asn Gly Leu Gly Ser His Leu Ser
65      70      75      80
Ala Ser Gly Thr Glu Cys Tyr Ile Thr Ser Asp Met Phe Tyr Val Glu
85      90      95
Val Gln Leu Asp Pro Ala Gly Gln Leu Cys Asp Val Lys Val Ala His
100      105      110
His Gly Glu Asn Pro Val Ser Cys Pro Glu Leu Val Gln Gln Leu Arg
115      120      125
Glu Lys Asn Ser Asp Glu Phe Ser Lys His Leu Lys Gly Leu Val Asn
130      135      140
Leu Tyr Asn Leu Pro Gly Asp Asn Lys Leu Lys Thr Lys Met Tyr Leu
145      150      155      160
Ala Leu Gln Ser Leu Glu Gln Asp Leu Ser Lys Met Ala Ile Met Tyr
165      170      175
Trp Lys Ala Thr Asn Ala Gly Pro Leu Asp Lys Ile Leu His Gly Ser
180      185      190

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Siemens 0022 Seq Listing.txt

Val	Gly	Tyr	Leu	Thr	Pro	Arg	Ser	Gly	Gly	His	Leu	Met	Asn	Leu	Lys
		195					200					205			
Tyr	Tyr	Val	Ser	Pro	Ser	Asp	Leu	Leu	Asp	Asp	Lys	Thr	Ala	Ser	Pro
	210					215					220				
Ile	Ile	Leu	His	Glu	Asn	Asn	Val	Ser	Arg	Ser	Leu	Gly	Met	Asn	Ala
225					230					235					240
Ser	Val	Thr	Ile	Glu	Gly	Thr	Ser	Ala	Val	Tyr	Lys	Leu	Pro	Ile	Ala
				245					250					255	
Pro	Leu	Ile	Met	Gly	Ser	His	Pro	Val	Asp	Asn	Lys	Trp	Thr	Pro	Ser
			260					265					270		
Phe	Ser	Ser	Ile	Thr	Ser	Ala	Asn	Ser	Val	Asp	Leu	Pro	Ala	Cys	Phe
		275					280					285			
Phe	Leu	Lys	Phe	Pro	Gln	Pro	Ile	Pro	Val	Ser	Arg	Ala	Phe	Val	Gln
	290					295					300				
Lys	Leu	Gln	Asn	Cys	Thr	Gly	Ile	Pro	Leu	Phe	Glu	Thr	Gln	Pro	Thr
305					310					315					320
Tyr	Ala	Pro	Leu	Tyr	Glu	Leu	Ile	Thr	Gln	Phe	Glu	Leu	Ser	Lys	Asp
				325					330					335	
Pro	Asp	Pro	Ile	Pro	Leu	Asn	His	Asn	Met	Arg	Phe	Tyr	Ala	Ala	Leu
			340					345					350		
Pro	Gly	Gln	Gln	His	Cys	Tyr	Phe	Leu	Asn	Lys	Asp	Ala	Pro	Leu	Pro
		355					360					365			
Asp	Gly	Arg	Ser	Leu	Gln	Gly	Thr	Leu	Val	Ser	Lys	Ile	Thr	Phe	Gln
	370					375					380				
His	Pro	Gly	Arg	Val	Pro	Leu	Ile	Leu	Asn	Leu	Ile	Arg	His	Gln	Val
385					390					395					400
Ala	Tyr	Asn	Thr	Leu	Ile	Gly	Ser	Cys	Val	Lys	Arg	Thr	Ile	Leu	Lys
				405					410					415	
Glu	Asp	Ser	Pro	Gly	Leu	Leu	Gln	Phe	Glu	Val	Cys	Pro	Leu	Ser	Glu
			420					425					430		
Ser	Arg	Phe	Ser	Val	Ser	Phe	Gln	His	Pro	Val	Asn	Asp	Ser	Leu	Val
		435					440					445			
Cys	Val	Val	Met	Asp	Val	Gln	Gly	Leu	Thr	His	Val	Ser	Cys	Lys	Leu
	450					455					460				
Tyr	Lys	Gly	Leu	Ser	Asp	Ala	Leu	Ile	Cys	Thr	Asp	Asp	Phe	Ile	Ala
465					470					475					480
Lys	Val	Val	Gln	Arg	Cys	Met	Ser	Ile	Pro	Val	Thr	Met	Arg	Ala	Ile
				485					490					495	
Arg	Arg	Lys	Ala	Glu	Thr	Ile	Gln	Ala	Asp	Thr	Pro	Ala	Leu	Ser	Leu
			500					505					510		
Ile	Ala	Glu	Thr	Val	Glu	Asp	Met	Val	Lys	Lys	Asn	Leu	Pro	Pro	Ala
		515					520					525			
Ser	Ser	Pro	Gly	Tyr	Gly	Met	Thr	Thr	Gly	Asn	Asn	Pro	Met	Ser	Gly
		530				535					540				
Thr	Thr	Thr	Ser	Thr	Asn	Thr	Phe	Pro	Gly	Gly	Pro	Ile	Ala	Thr	Leu
545					550					555					560
Phe	Asn	Met	Ser	Met	Ser	Ile	Lys	Asp	Arg	His	Glu	Ser	Val	Gly	His
				565				570						575	
Gly	Glu	Asp	Phe	Ser	Lys	Val	Ser	Gln	Asn	Pro	Ile	Leu	Thr	Ser	Leu
			580					585					590		
Leu	Gln	Ile	Thr	Gly	Asn	Gly	Gly	Ser	Thr	Ile	Gly	Ser	Ser	Pro	Thr
		595					600					605			
Pro	Pro	His	His	Thr	Pro	Pro	Pro	Val	Ser	Ser	Met	Ala	Gly	Asn	Thr
		610				615					620				
Lys	Asn	His	Pro	Met	Leu	Met	Asn	Leu	Leu	Lys	Asp	Asn	Pro	Ala	Gln
625					630					635					640
Asp	Phe	Ser	Thr	Leu	Tyr	Gly	Ser	Ser	Pro	Leu	Glu	Arg	Gln	Asn	Ser
				645					650					655	
Ser	Ser	Gly	Ser	Pro	Arg	Met	Glu	Ile	Cys	Ser	Gly	Ser	Asn	Lys	Thr
			660					665					670		
Lys	Lys	Lys	Lys	Ser	Ser	Arg	Leu	Pro	Pro	Glu	Lys	Pro	Lys	His	Gln
		675					680					685			
Thr	Glu	Asp	Asp	Phe	Gln	Arg	Glu	Leu	Phe	Ser	Met	Asp	Val	Asp	Ser

Siemens 0022 Seq Listing.txt

690	Gln	Asn	Pro	Ile	Phe	Asp	Val	Asn	Met	Thr	Ala	Asp	Thr	Leu	Asp	Thr
705	Pro	His	Ile	Thr	Pro	Ala	Pro	Ser	Gln	Cys	Ser	Thr	Pro	Pro	Thr	Thr
					725					730						735
	Tyr	Pro	Gln	Pro	Val	Pro	His	Pro	Gln	Pro	Ser	Ile	Gln	Arg	Met	Val
				740					745							750
	Arg	Leu	Ser	Ser	Ser	Asp	Ser	Ile	Gly	Pro	Asp	Val	Thr	Asp	Ile	Leu
			755					760					765			
	Ser	Asp	Ile	Ala	Glu	Glu	Ala	Ser	Lys	Leu	Pro	Ser	Thr	Ser	Asp	Asp
							775						780			
	Cys	Pro	Ala	Ile	Gly	Thr	Pro	Leu	Arg	Asp	Ser	Ser	Ser	Ser	Gly	His
785							790									800
	Ser	Gln	Ser	Thr	Leu	Phe	Asp	Ser	Asp	Val	Phe	Gln	Thr	Asn	Asn	Asn
					805					810						815
	Glu	Asn	Pro	Tyr	Thr	Asp	Pro	Ala	Asp	Leu	Ile	Ala	Asp	Ala	Ala	Gly
				820					825							830
	Ser	Pro	Ser	Ser	Asp	Ser	Pro	Thr	Asn	His	Phe	Phe	His	Asp	Gly	Val
								840								845
	Asp	Phe	Asn	Pro	Asp	Leu	Leu	Asn	Ser	Gln	Ser	Gln	Ser	Gly	Phe	Gly
							855						860			
	Glu	Glu	Tyr	Phe	Asp	Glu	Ser	Ser	Gln	Ser	Gly	Asp	Asn	Asp	Asp	Phe
865							870									880
	Lys	Gly	Phe	Ala	Ser	Gln	Ala	Leu	Asn	Thr	Leu	Gly	Val	Pro	Met	Leu
							885									895
	Gly	Gly	Asp	Asn	Gly	Glu	Thr	Lys	Phe	Lys	Gly	Asn	Asn	Gln	Ala	Asp
				900					905							910
	Thr	Val	Asp	Phe	Ser	Ile	Ile	Ser	Val	Ala	Gly	Lys	Ala	Leu	Ala	Pro
									920							925
	Ala	Asp	Leu	Met	Glu	His	His	Ser	Gly	Ser	Gln	Gly	Pro	Leu	Leu	Thr
																940
	Thr	Gly	Asp	Leu	Gly	Lys	Glu	Lys	Thr	Gln	Lys	Arg	Val	Lys	Glu	Gly
945							950									960
	Asn	Gly	Thr	Ser	Asn	Ser	Thr	Leu	Ser	Gly	Pro	Gly	Leu	Asp	Ser	Lys
							965									975
	Pro	Gly	Lys	Arg	Ser	Arg	Thr	Pro	Ser	Asn	Asp	Gly	Lys	Ser	Lys	Asp
																990
	Lys	Pro	Pro	Lys	Arg	Lys	Lys	Ala	Asp	Thr	Glu	Gly	Lys	Ser	Pro	Ser
								1000								1005
	His	Ser	Ser	Ser	Asn	Arg	Pro	Phe	Thr	Pro	Pro	Thr	Ser	Thr	Gly	
																1010
	Gly	Ser	Lys	Ser	Pro	Gly	Ser	Ala	Gly	Arg	Ser	Gln	Thr	Pro	Pro	
																1025
	Gly	Val	Ala	Thr	Pro	Pro	Ile	Pro	Lys	Ile	Thr	Ile	Gln	Ile	Pro	
																1040
	Lys	Gly	Thr	Val	Met	Val	Gly	Lys	Pro	Ser	Ser	His	Ser	Gln	Tyr	
																1055
	Thr	Ser	Ser	Gly	Ser	Val	Ser	Ser	Ser	Gly	Ser	Lys	Ser	His	His	
																1070
	Ser	His	Ser	Ser	Ser	Ser	Ser	Ser	Ser	Ala	Ser	Thr	Ser	Gly	Lys	
																1085
	Met	Lys	Ser	Ser	Lys	Ser	Glu	Gly	Ser	Ser	Ser	Ser	Lys	Leu	Ser	
																1100
	Ser	Ser	Met	Tyr	Ser	Ser	Gln	Gly	Ser	Ser	Gly	Ser	Ser	Gln	Ser	
																1115
	Lys	Asn	Ser	Ser	Gln	Ser	Gly	Lys	Pro	Gly	Ser	Ser	Pro	Ile		
																1130
	Thr	Lys	His	Gly	Leu	Ser	Ser	Gly	Ser	Ser	Ser	Thr	Lys	Met	Lys	
																1145
	Pro	Gln	Gly	Lys	Pro	Ser	Ser	Leu	Met	Asn	Pro	Ser	Leu	Ser	Lys	
																1160
	Pro	Asn	Ile	Ser	Pro	Ser	His	Ser	Arg	Pro	Pro	Gly	Gly	Ser	Asp	
																1175

Siemens 0022 Seq Listing.txt

Lys	Leu	Ala	Ser	Pro	Met	Lys	Pro	Val	Pro	Gly	Thr	Pro	Pro	Ser
1190						1195						1200		
Ser	Lys	Ala	Lys	Ser	Pro	Ile	Ser	Ser	Gly	Ser	Gly	Gly	Ser	His
1205						1210						1215		
Met	Ser	Gly	Thr	Ser	Ser	Ser	Ser	Gly	Met	Lys	Ser	Ser	Ser	Gly
1220						1225						1230		
Leu	Gly	Ser	Ser	Gly	Ser	Leu	Ser	Gln	Lys	Thr	Pro	Pro	Ser	Ser
1235						1240						1245		
Asn	Ser	Cys	Thr	Ala	Ser	Ser	Ser	Ser	Phe	Ser	Ser	Ser	Gly	Ser
1250						1255						1260		
Ser	Met	Ser	Ser	Ser	Gln	Asn	Gln	His	Gly	Ser	Ser	Lys	Gly	Lys
1265						1270						1275		
Ser	Pro	Ser	Arg	Asn	Lys	Lys	Pro	Ser	Leu	Thr	Ala	Val	Ile	Asp
1280						1285						1290		
Lys	Leu	Lys	His	Gly	Val	Val	Thr	Ser	Gly	Pro	Gly	Gly	Glu	Asp
1295						1300						1305		
Pro	Leu	Asp	Gly	Gln	Met	Gly	Val	Ser	Thr	Asn	Ser	Ser	Ser	His
1310						1315						1320		
Pro	Met	Ser	Ser	Lys	His	Asn	Met	Ser	Gly	Gly	Glu	Phe	Gln	Gly
1325						1330						1335		
Lys	Arg	Glu	Lys	Ser	Asp	Lys	Asp	Lys	Ser	Lys	Val	Ser	Thr	Ser
1340						1345						1350		
Gly	Ser	Ser	Val	Asp	Ser	Ser	Lys	Lys	Thr	Ser	Glu	Ser	Lys	Asn
1355						1360						1365		
Val	Gly	Ser	Thr	Gly	Val	Ala	Lys	Ile	Ile	Ile	Ser	Lys	His	Asp
1370						1375						1380		
Gly	Gly	Ser	Pro	Ser	Ile	Lys	Ala	Lys	Val	Thr	Leu	Gln	Lys	Pro
1385						1390						1395		
Gly	Glu	Ser	Ser	Gly	Glu	Gly	Leu	Arg	Pro	Gln	Met	Ala	Ser	Ser
1400						1405						1410		
Lys	Asn	Tyr	Gly	Ser	Pro	Leu	Ile	Ser	Gly	Ser	Thr	Pro	Lys	His
1415						1420						1425		
Glu	Arg	Gly	Ser	Pro	Ser	His	Ser	Lys	Ser	Pro	Ala	Tyr	Thr	Pro
1430						1435						1440		
Gln	Asn	Leu	Asp	Ser	Glu	Ser	Glu	Ser	Gly	Ser	Ser	Ile	Ala	Glu
1445						1450						1455		
Lys	Ser	Tyr	Gln	Asn	Ser	Pro	Ser	Ser	Asp	Asp	Gly	Ile	Arg	Pro
1460						1465						1470		
Leu	Pro	Glu	Tyr	Ser	Thr	Glu	Lys	His	Lys	Lys	His	Lys	Lys	Glu
1475						1480						1485		
Lys	Lys	Lys	Val	Lys	Asp	Lys	Asp	Arg	Asp	Arg	Asp	Arg	Asp	Lys
1490						1495						1500		
Asp	Arg	Asp	Lys	Lys	Lys	Ser	His	Ser	Ile	Lys	Pro	Glu	Ser	Trp
1505						1510						1515		
Ser	Lys	Ser	Pro	Ile	Ser	Ser	Asp	Gln	Ser	Leu	Ser	Met	Thr	Ser
1520						1525						1530		
Asn	Thr	Ile	Leu	Ser	Ala	Asp	Arg	Pro	Ser	Arg	Leu	Ser	Pro	Asp
1535						1540						1545		
Phe	Met	Ile	Gly	Glu	Glu	Asp	Asp	Asp	Leu	Met	Asp	Val	Ala	Leu
1550						1555						1560		
Ile	Gly	Asn												
1565														

<210> 31

<211> 1490

<212> PRT

<213> Homo sapiens

<400> 31

Met	Pro	Asn	Ser	Glu	Arg	His	Gly	Gly	Lys	Lys	Asp	Gly	Ser	Gly	Gly
1				5					10					15	

Siemens 0022 Seq Listing.txt

Ala	Ser	Gly	Thr	Leu	Gln	Pro	Ser	Ser	Gly	Gly	Gly	Ser	Ser	Asn	Ser
			20					25					30		
Arg	Glu	Arg	His	Arg	Leu	Val	Ser	Lys	His	Lys	Arg	His	Lys	Ser	Lys
		35					40					45			
His	Ser	Lys	Asp	Met	Gly	Leu	Val	Thr	Pro	Glu	Ala	Ala	Ser	Leu	Gly
	50					55					60				
Thr	Val	Ile	Lys	Pro	Leu	Val	Glu	Tyr	Asp	Asp	Ile	Ser	Ser	Asp	Ser
65					70				75					80	
Asp	Thr	Phe	Ser	Asp	Asp	Met	Ala	Phe	Lys	Leu	Asp	Arg	Arg	Glu	Asn
			85					90						95	
Asp	Glu	Arg	Arg	Gly	Ser	Asp	Arg	Ser	Asp	Arg	Leu	His	Lys	His	Arg
			100					105					110		
His	His	Gln	His	Arg	Arg	Ser	Arg	Asp	Leu	Leu	Lys	Ala	Lys	Gln	Thr
		115					120					125			
Glu	Lys	Glu	Lys	Ser	Gln	Glu	Val	Ser	Ser	Lys	Ser	Gly	Ser	Met	Lys
	130					135					140				
Asp	Arg	Ile	Ser	Gly	Ser	Ser	Lys	Arg	Ser	Asn	Glu	Glu	Thr	Asp	Asp
145					150					155				160	
Tyr	Gly	Lys	Ala	Gln	Val	Ala	Lys	Ser	Ser	Ser	Lys	Glu	Ser	Arg	Ser
			165					170						175	
Ser	Lys	Leu	His	Lys	Glu	Lys	Thr	Arg	Lys	Glu	Arg	Glu	Leu	Lys	Ser
			180					185					190		
Gly	His	Lys	Asp	Arg	Ser	Lys	Ser	His	Arg	Lys	Arg	Glu	Thr	Pro	Lys
		195					200					205			
Ser	Tyr	Lys	Thr	Val	Asp	Ser	Pro	Lys	Arg	Arg	Ser	Arg	Ser	Pro	His
	210					215					220				
Arg	Lys	Trp	Ser	Asp	Ser	Ser	Lys	Gln	Asp	Asp	Ser	Pro	Ser	Gly	Ala
225					230					235				240	
Ser	Tyr	Gly	Gln	Asp	Tyr	Asp	Leu	Ser	Pro	Ser	Arg	Ser	His	Thr	Ser
			245					250						255	
Ser	Asn	Tyr	Asp	Ser	Tyr	Lys	Lys	Ser	Pro	Gly	Ser	Thr	Ser	Arg	Arg
			260					265					270		
Gln	Ser	Val	Ser	Pro	Pro	Tyr	Lys	Glu	Pro	Ser	Ala	Tyr	Gln	Ser	Ser
		275					280					285			
Thr	Arg	Ser	Pro	Ser	Pro	Tyr	Ser	Arg	Arg	Gln	Arg	Ser	Val	Ser	Pro
	290					295					300				
Tyr	Ser	Arg	Arg	Arg	Ser	Ser	Ser	Tyr	Glu	Arg	Ser	Gly	Ser	Tyr	Ser
305					310					315				320	
Gly	Arg	Ser	Pro	Ser	Pro	Tyr	Gly	Arg	Arg	Arg	Ser	Ser	Ser	Pro	Phe
			325						330					335	
Leu	Ser	Lys	Arg	Ser	Leu	Ser	Arg	Ser	Pro	Leu	Pro	Ser	Arg	Lys	Ser
			340					345					350		
Met	Lys	Ser	Arg	Ser	Arg	Ser	Pro	Ala	Tyr	Ser	Arg	His	Ser	Ser	Ser
		355					360					365			
His	Ser	Lys	Lys	Lys	Arg	Ser	Ser	Ser	Arg	Ser	Arg	His	Ser	Ser	Ile
	370					375					380				
Ser	Pro	Val	Arg	Leu	Pro	Leu	Asn	Ser	Ser	Leu	Gly	Ala	Glu	Leu	Ser
385					390					395				400	
Arg	Lys	Lys	Lys	Glu	Arg	Ala	Ala	Ala	Ala	Ala	Ala	Ala	Lys	Met	Asp
				405					410					415	
Gly	Lys	Glu	Ser	Lys	Gly	Ser	Pro	Val	Phe	Leu	Pro	Arg	Lys	Glu	Asn
			420					425					430		
Ser	Ser	Val	Glu	Ala	Lys	Asp	Ser	Gly	Leu	Glu	Ser	Lys	Lys	Leu	Pro
		435					440					445			
Arg	Ser	Val	Lys	Leu	Glu	Lys	Ser	Ala	Pro	Asp	Thr	Glu	Leu	Val	Asn
	450					455					460				
Val	Thr	His	Leu	Asn	Thr	Glu	Val	Lys	Asn	Ser	Ser	Asp	Thr	Gly	Lys
465					470					475				480	
Val	Lys	Leu	Asp	Glu	Asn	Ser	Glu	Lys	His	Leu	Val	Lys	Asp	Leu	Lys
			485						490					495	
Ala	Gln	Gly	Thr	Arg	Asp	Ser	Lys	Pro	Ile	Ala	Leu	Lys	Glu	Glu	Ile
			500					505					510		
Val	Thr	Pro	Lys	Glu	Thr	Glu	Thr	Ser	Glu	Lys	Glu	Thr	Pro	Pro	Pro

Siemens 0022 Seq Listing.txt

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515
Leu Pro Thr Ile Ala Ser Pro 520 Pro Pro Pro Leu Pro 525 Thr Thr Pro
530 535 540
Pro Pro Gln Thr Pro Pro Leu Pro Pro Leu Pro Pro Ile Pro Ala Leu
545 550 555 560
Pro Gln Gln Pro Pro Leu Pro Pro Ser Gln Pro Ala Phe Ser Gln Val
565 570 575
Pro Ala Ser Ser Thr Ser Thr Leu Pro Ser Thr His Ser Lys Thr
580 585 590
Ser Ala Val Ser Ser Gln Ala Asn Ser Gln Pro Pro Val Gln Val Ser
595 600 605
Val Lys Thr Gln Val Ser Val Thr Ala Ala Ile Pro His Leu Lys Thr
610 615 620
Ser Thr Leu Pro Pro Leu Pro Leu Pro Leu Pro Gly Gly Asp
625 630 635 640
Asp Met Asp Ser Pro Lys Glu Thr Leu Pro Ser Lys Pro Val Lys Lys
645 650 655
Glu Lys Glu Gln Arg Thr Arg His Leu Leu Thr Asp Leu Pro Leu Pro
660 665 670
Pro Glu Leu Pro Gly Gly Asp Leu Ser Pro Pro Asp Ser Pro Glu Pro
675 680 685
Lys Ala Ile Thr Pro Pro Gln Gln Pro Tyr Lys Lys Arg Pro Lys Ile
690 695 700
Cys Cys Pro Arg Tyr Gly Glu Arg Arg Gln Thr Glu Ser Asp Trp Gly
705 710 715 720
Lys Arg Cys Val Asp Lys Phe Asp Ile Ile Gly Ile Ile Gly Glu Gly
725 730 735
Thr Tyr Gly Gln Val Tyr Lys Ala Arg Asp Lys Asp Thr Gly Glu Leu
740 745 750
Val Ala Leu Lys Lys Val Arg Leu Asp Asn Glu Lys Glu Gly Phe Pro
755 760 765
Ile Thr Ala Ile Arg Glu Ile Lys Ile Leu Arg Gln Leu Ile His Arg
770 775 780
Ser Val Val Asn Met Lys Glu Ile Val Thr Asp Lys Gln Asp Ala Leu
785 790 795 800
Asp Phe Lys Lys Asp Lys Gly Ala Phe Tyr Leu Val Phe Glu Tyr Met
805 810 815
Asp His Asp Leu Met Gly Leu Leu Glu Ser Gly Leu Val His Phe Ser
820 825 830
Glu Asp His Ile Lys Ser Phe Met Lys Gln Leu Met Glu Gly Leu Glu
835 840 845
Tyr Cys His Lys Lys Asn Phe Leu His Arg Asp Ile Lys Cys Ser Asn
850 855 860
Ile Leu Leu Asn Asn Ser Gly Gln Ile Lys Leu Ala Asp Phe Gly Leu
865 870 875 880
Ala Arg Leu Tyr Asn Ser Glu Glu Ser Arg Pro Tyr Thr Asn Lys Val
885 890 895
Ile Thr Leu Trp Tyr Arg Pro Pro Glu Leu Leu Leu Gly Glu Glu Arg
900 905 910
Tyr Thr Pro Ala Ile Asp Val Trp Ser Cys Gly Cys Ile Leu Gly Glu
915 920 925
Leu Phe Thr Lys Lys Pro Ile Phe Gln Ala Asn Leu Glu Leu Ala Gln
930 935 940
Leu Glu Leu Ile Ser Arg Leu Cys Gly Ser Pro Cys Pro Ala Val Trp
945 950 955 960
Pro Asp Val Ile Lys Leu Pro Tyr Phe Asn Thr Met Lys Pro Lys Lys
965 970 975
Gln Tyr Arg Arg Arg Leu Arg Glu Glu Phe Ser Phe Ile Pro Ser Ala
980 985 990
Ala Leu Asp Leu Leu Asp His Met Leu Thr Leu Asp Pro Ser Lys Arg
995 1000 1005
Cys Thr Ala Glu Gln Thr Leu Gln Ser Asp Phe Leu Lys Asp Val
1010 1015 1020

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Siemens 0022 Seq Listing.txt

Glu	Leu	Ser	Lys	Met	Ala	Pro	Pro	Asp	Leu	Pro	His	Trp	Gln	Asp
1025						1030					1035			
Cys	His	Glu	Leu	Trp	Ser	Lys	Lys	Arg	Arg	Arg	Gln	Arg	Gln	Ser
1040						1045					1050			
Gly	Val	Val	Val	Glu	Glu	Pro	Pro	Pro	Ser	Lys	Thr	Ser	Arg	Lys
1055						1060					1065			
Glu	Thr	Thr	Ser	Gly	Thr	Ser	Thr	Glu	Pro	Val	Lys	Asn	Ser	Ser
1070						1075					1080			
Pro	Ala	Pro	Pro	Gln	Pro	Ala	Pro	Gly	Lys	Val	Glu	Ser	Gly	Ala
1085						1090					1095			
Gly	Asp	Ala	Ile	Gly	Leu	Ala	Asp	Ile	Thr	Gln	Gln	Leu	Asn	Gln
1100						1105					1110			
Ser	Glu	Leu	Ala	Val	Leu	Leu	Asn	Leu	Leu	Gln	Ser	Gln	Thr	Asp
1115						1120					1125			
Leu	Ser	Ile	Pro	Gln	Met	Ala	Gln	Leu	Leu	Asn	Ile	His	Ser	Asn
1130						1135					1140			
Pro	Glu	Met	Gln	Gln	Gln	Leu	Glu	Ala	Leu	Asn	Gln	Ser	Ile	Ser
1145						1150					1155			
Ala	Leu	Thr	Glu	Ala	Thr	Ser	Gln	Gln	Gln	Asp	Ser	Glu	Thr	Met
1160						1165					1170			
Ala	Pro	Glu	Glu	Ser	Leu	Lys	Glu	Ala	Pro	Ser	Ala	Pro	Val	Ile
1175						1180					1185			
Leu	Pro	Ser	Ala	Glu	Gln	Met	Thr	Leu	Glu	Ala	Ser	Ser	Thr	Pro
1190						1195					1200			
Ala	Asp	Met	Gln	Asn	Ile	Leu	Ala	Val	Leu	Leu	Ser	Gln	Leu	Met
1205						1210					1215			
Lys	Thr	Gln	Glu	Pro	Ala	Gly	Ser	Leu	Glu	Glu	Asn	Asn	Ser	Asp
1220						1225					1230			
Lys	Asn	Ser	Gly	Pro	Gln	Gly	Pro	Arg	Arg	Thr	Pro	Thr	Met	Pro
1235						1240					1245			
Gln	Glu	Glu	Ala	Ala	Ala	Cys	Pro	Pro	His	Ile	Leu	Pro	Pro	Glu
1250						1255					1260			
Lys	Arg	Pro	Pro	Glu	Pro	Pro	Gly	Pro	Pro	Pro	Pro	Pro	Pro	Pro
1265						1270					1275			
Pro	Pro	Leu	Val	Glu	Gly	Asp	Leu	Ser	Ser	Ala	Pro	Gln	Glu	Leu
1280						1285					1290			
Asn	Pro	Ala	Val	Thr	Ala	Ala	Leu	Leu	Gln	Leu	Leu	Ser	Gln	Pro
1295						1300					1305			
Glu	Ala	Glu	Pro	Pro	Gly	His	Leu	Pro	His	Glu	His	Gln	Ala	Leu
1310						1315					1320			
Arg	Pro	Met	Glu	Tyr	Ser	Thr	Arg	Pro	Arg	Pro	Asn	Arg	Thr	Tyr
1325						1330					1335			
Gly	Asn	Thr	Asp	Gly	Pro	Glu	Thr	Gly	Phe	Ser	Ala	Ile	Asp	Thr
1340						1345					1350			
Asp	Glu	Arg	Asn	Ser	Gly	Pro	Ala	Leu	Thr	Glu	Ser	Leu	Val	Gln
1355						1360					1365			
Thr	Leu	Val	Lys	Asn	Arg	Thr	Phe	Ser	Gly	Ser	Leu	Ser	His	Leu
1370						1375					1380			
Gly	Glu	Ser	Ser	Ser	Tyr	Gln	Gly	Thr	Gly	Ser	Val	Gln	Phe	Pro
1385						1390					1395			
Gly	Asp	Gln	Asp	Leu	Arg	Phe	Ala	Arg	Val	Pro	Leu	Ala	Leu	His
1400						1405					1410			
Pro	Val	Val	Gly	Gln	Pro	Phe	Leu	Lys	Ala	Glu	Gly	Ser	Ser	Asn
1415						1420					1425			
Ser	Val	Val	His	Ala	Glu	Thr	Lys	Leu	Gln	Asn	Tyr	Gly	Glu	Leu
1430						1435					1440			
Gly	Pro	Gly	Thr	Thr	Gly	Ala	Ser	Ser	Ser	Gly	Ala	Gly	Leu	His
1445						1450					1455			
Trp	Gly	Gly	Pro	Thr	Gln	Ser	Ser	Ala	Tyr	Gly	Lys	Leu	Tyr	Arg
1460						1465					1470			
Gly	Pro	Thr	Arg	Val	Pro	Pro	Arg	Gly	Gly	Arg	Gly	Arg	Gly	Val
1475						1480					1485			
Pro	Tyr													

Siemens 0022 Seq Listing.txt

1490
<210> 32

<211> 381

<212> PRT

<213> Homo sapiens

<400> 32

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Met Leu Thr Arg Leu Phe Ser Glu Pro Gly Leu Leu Ser Asp Val Pro
1      5      10      15
Lys Phe Ala Ser Trp Gly Asp Gly Glu Asp Asp Glu Pro Arg Ser Asp
20      25      30
Lys Gly Asp Ala Pro Pro Pro Pro Pro Pro Ala Pro Gly Pro Gly Ala
35      40      45
Pro Gly Pro Ala Arg Ala Ala Lys Pro Val Pro Leu Arg Gly Glu Glu
50      55      60
Gly Thr Glu Ala Thr Leu Ala Glu Val Lys Glu Gly Glu Leu Gly
65      70      75      80
Gly Glu Glu Glu Glu Glu Glu Glu Glu Glu Gly Leu Asp Glu Ala
85      90      95
Glu Gly Glu Arg Pro Lys Lys Arg Gly Pro Lys Lys Arg Lys Met Thr
100     105     110
Lys Ala Arg Leu Glu Arg Ser Lys Leu Arg Arg Gln Lys Ala Asn Ala
115     120     125
Arg Glu Arg Asn Arg Met His Asp Leu Asn Ala Ala Leu Asp Asn Leu
130     135     140
Arg Lys Val Val Pro Cys Tyr Ser Lys Thr Gln Lys Leu Ser Lys Ile
145     150     155     160
Glu Thr Leu Arg Leu Ala Lys Asn Tyr Ile Trp Ala Leu Ser Glu Ile
165     170     175
Leu Arg Ser Gly Lys Arg Pro Asp Leu Val Ser Tyr Val Gln Thr Leu
180     185     190
Cys Lys Gly Leu Ser Gln Pro Thr Thr Asn Leu Val Ala Gly Cys Leu
195     200     205
Gln Leu Asn Ser Arg Asn Phe Leu Thr Glu Gln Gly Ala Asp Gly Ala
210     215     220
Gly Arg Phe His Gly Ser Gly Gly Pro Phe Ala Met His Pro Tyr Pro
225     230     235     240
Tyr Pro Cys Ser Arg Leu Ala Gly Ala Gln Cys Gln Ala Ala Gly Gly
245     250     255
Leu Gly Gly Gly Ala Ala His Ala Leu Arg Thr His Gly Tyr Cys Ala
260     265     270
Ala Tyr Glu Thr Leu Tyr Ala Ala Ala Gly Gly Gly Gly Ala Ser Pro
275     280     285
Asp Tyr Asn Ser Ser Glu Tyr Glu Gly Pro Leu Ser Pro Pro Leu Cys
290     295     300
Leu Asn Gly Asn Phe Ser Leu Lys Gln Asp Ser Ser Pro Asp His Glu
305     310     315     320
Lys Ser Tyr His Tyr Ser Met His Tyr Ser Ala Leu Pro Gly Ser Arg
325     330     335
His Gly His Gly Leu Val Phe Gly Ser Ser Ala Val Arg Gly Gly Val
340     345     350
His Ser Glu Asn Leu Leu Ser Tyr Asp Met His Leu His His Asp Arg
355     360     365
Gly Pro Met Tyr Glu Glu Leu Asn Ala Phe Phe His Asn
370     375     380

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<210> 33

<211> 445

<212> PRT

Siemens 0022 Seq Listing.txt

<213> Homo sapiens

<400> 33

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Met Ser Lys Leu Pro Arg Glu Leu Thr Arg Asp Leu Glu Arg Ser Leu
1      5      10      15
Pro Ala Val Ala Ser Leu Gly Ser Ser Leu Ser His Ser Gln Ser Leu
20      25      30
Ser Ser His Leu Leu Pro Pro Pro Glu Lys Arg Arg Ala Ile Ser Asp
35      40      45
Val Arg Arg Thr Phe Cys Leu Phe Val Thr Phe Asp Leu Leu Phe Ile
50      55      60
Ser Leu Leu Trp Ile Ile Glu Leu Asn Thr Asn Thr Gly Ile Arg Lys
65      70      75      80
Asn Leu Glu Gln Glu Ile Ile Gln Tyr Asn Phe Lys Thr Ser Phe Phe
85      90      95
Asp Ile Phe Val Leu Ala Phe Phe Arg Phe Ser Gly Leu Leu Leu Gly
100      105      110
Tyr Ala Val Leu Gln Leu Arg His Trp Trp Val Ile Ala Val Thr Thr
115      120      125
Leu Val Ser Ser Ala Phe Leu Ile Val Lys Val Ile Leu Ser Glu Leu
130      135      140
Leu Ser Lys Gly Ala Phe Gly Tyr Leu Leu Pro Ile Val Ser Phe Val
145      150      155      160
Leu Ala Trp Leu Glu Thr Trp Phe Leu Asp Phe Lys Val Leu Pro Gln
165      170      175
Glu Ala Glu Glu Glu Arg Trp Tyr Leu Ala Ala Gln Val Ala Val Ala
180      185      190
Arg Gly Pro Leu Leu Phe Ser Gly Ala Leu Ser Glu Gly Gln Phe Tyr
195      200      205
Ser Pro Pro Glu Ser Phe Ala Gly Ser Asp Asn Glu Ser Asp Glu Glu
210      215      220
Val Ala Gly Lys Lys Ser Phe Ser Ala Gln Glu Arg Glu Tyr Ile Arg
225      230      235      240
Gln Gly Lys Glu Ala Thr Ala Val Val Asp Gln Ile Leu Ala Gln Glu
245      250      255
Glu Asn Trp Lys Phe Glu Lys Asn Asn Glu Tyr Gly Asp Thr Val Tyr
260      265      270
Thr Ile Glu Val Pro Phe His Gly Lys Thr Phe Ile Leu Lys Thr Phe
275      280      285
Leu Pro Cys Pro Ala Glu Leu Val Tyr Gln Glu Val Ile Leu Gln Pro
290      295      300
Glu Arg Met Val Leu Trp Asn Lys Thr Val Thr Ala Cys Gln Ile Leu
305      310      315      320
Gln Arg Val Glu Asp Asn Thr Leu Ile Ser Tyr Asp Val Ser Ala Gly
325      330      335
Ala Ala Gly Gly Val Val Ser Pro Arg Asp Phe Val Asn Val Arg Arg
340      345      350
Ile Glu Arg Arg Arg Asp Arg Tyr Leu Ser Ser Gly Ile Ala Thr Ser
355      360      365
His Ser Ala Lys Pro Pro Thr His Lys Tyr Val Arg Gly Glu Asn Gly
370      375      380
Pro Gly Gly Phe Ile Val Leu Lys Ser Ala Ser Asn Pro Arg Val Cys
385      390      395      400
Thr Phe Val Trp Ile Leu Asn Thr Asp Leu Lys Gly Arg Leu Pro Arg
405      410      415
Tyr Leu Ile His Gln Ser Leu Ala Ala Thr Met Phe Glu Phe Ala Phe
420      425      430
His Leu Arg Gln Arg Ile Ser Glu Leu Gly Ala Arg Ala
435      440      445

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<210> 34

<211> 167

Siemens 0022 Seq Listing.txt

<212> PRT

<213> Homo sapiens

<400> 34

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Met Ala Thr Ser Glu Leu Ser Cys Glu Val Ser Glu Glu Asn Cys Glu
1      5      10      15
Arg Arg Glu Ala Phe Trp Ala Glu Trp Lys Asp Leu Thr Leu Ser Thr
      20      25      30
Arg Pro Glu Glu Gly Cys Ser Leu His Glu Glu Asp Thr Gln Arg His
      35      40      45
Glu Thr Tyr His Gln Gln Gly Gln Cys Gln Val Leu Val Gln Arg Ser
      50      55      60
Pro Trp Leu Met Met Arg Met Gly Ile Leu Gly Arg Gly Leu Gln Glu
65      70      75      80
Tyr Gln Leu Pro Tyr Gln Arg Val Leu Pro Leu Pro Ile Phe Thr Pro
      85      90      95
Ala Lys Met Gly Ala Thr Lys Glu Glu Arg Glu Asp Thr Pro Ile Gln
      100      105      110
Leu Gln Glu Leu Leu Ala Leu Glu Thr Ala Leu Gly Gly Gln Cys Val
      115      120      125
Asp Arg Gln Glu Val Ala Glu Ile Thr Lys Gln Leu Pro Pro Val Val
130      135      140
Pro Val Ser Lys Pro Gly Ala Leu Arg Arg Ser Leu Ser Arg Ser Met
145      150      155      160
Ser Gln Glu Ala Gln Arg Gly
      165

```

<210> 35

<211> 282

<212> PRT

<213> Homo sapiens

<400> 35

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Met Ser Gly Ala Asp Arg Ser Pro Asn Ala Gly Ala Ala Pro Asp Ser
1      5      10      15
Ala Pro Gly Gln Ala Ala Val Ala Ser Ala Tyr Gln Arg Phe Glu Pro
      20      25      30
Arg Ala Tyr Leu Arg Asn Asn Tyr Ala Pro Pro Arg Gly Asp Leu Cys
      35      40      45
Asn Pro Asn Gly Val Gly Pro Trp Lys Leu Arg Cys Leu Ala Gln Thr
      50      55      60
Phe Ala Thr Gly Glu Val Ser Gly Arg Thr Leu Ile Asp Ile Gly Ser
65      70      75      80
Gly Pro Thr Val Tyr Gln Leu Leu Ser Ala Cys Ser His Phe Glu Asp
      85      90      95
Ile Thr Met Thr Asp Phe Leu Glu Val Asn Arg Gln Glu Leu Gly Arg
      100      105      110
Trp Leu Gln Glu Glu Pro Gly Ala Phe Asn Trp Ser Met Tyr Ser Gln
      115      120      125
His Ala Cys Leu Ile Glu Gly Lys Gly Glu Cys Trp Gln Asp Lys Glu
130      135      140
Arg Gln Leu Arg Ala Arg Val Lys Arg Val Leu Pro Ile Asp Val His
145      150      155      160
Gln Pro Gln Pro Leu Gly Ala Gly Ser Pro Ala Pro Leu Pro Ala Asp
      165      170      175
Ala Leu Val Ser Ala Phe Cys Leu Glu Ala Val Ser Pro Asp Leu Ala
      180      185      190
Ser Phe Gln Arg Ala Leu Asp His Ile Thr Thr Leu Leu Arg Pro Gly
195      200      205

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Siemens 0022 Seq Listing.txt

Gly His Leu Leu Leu Ile Gly Ala Leu Glu Glu Ser Trp Tyr Leu Ala
 210 215 220
 Gly Glu Ala Arg Leu Thr Val Val Pro Val Ser Glu Glu Glu Val Arg
 225 230 235 240
 Glu Ala Leu Val Arg Ser Gly Tyr Lys Val Arg Asp Leu Arg Thr Tyr
 245 250 255
 Ile Met Pro Ala His Leu Gln Thr Gly Val Asp Asp Val Lys Gly Val
 260 265 270
 Phe Phe Ala Trp Ala Gln Lys Val Gly Leu
 275 280
 <210> 36
 <211> 1255
 <212> PRT
 <213> Homo sapiens

<400> 36
 Met Glu Leu Ala Ala Leu Cys Arg Trp Gly Leu Leu Leu Ala Leu Leu
 1 5 10 15
 Pro Pro Gly Ala Ala Ser Thr Gln Val Cys Thr Gly Thr Asp Met Lys
 20 25 30
 Leu Arg Leu Pro Ala Ser Pro Glu Thr His Leu Asp Met Leu Arg His
 35 40 45
 Leu Tyr Gln Gly Cys Gln Val Val Gln Gly Asn Leu Glu Leu Thr Tyr
 50 55 60
 Leu Pro Thr Asn Ala Ser Leu Ser Phe Leu Gln Asp Ile Gln Glu Val
 65 70 75 80
 Gln Gly Tyr Val Leu Ile Ala His Asn Gln Val Arg Gln Val Pro Leu
 85 90 95
 Gln Arg Leu Arg Ile Val Arg Gly Thr Gln Leu Phe Glu Asp Asn Tyr
 100 105 110
 Ala Leu Ala Val Leu Asp Asn Gly Asp Pro Leu Asn Asn Thr Thr Pro
 115 120 125
 Val Thr Gly Ala Ser Pro Gly Gly Leu Arg Glu Leu Gln Leu Arg Ser
 130 135 140
 Leu Thr Glu Ile Leu Lys Gly Gly Val Leu Ile Gln Arg Asn Pro Gln
 145 150 155 160
 Leu Cys Tyr Gln Asp Thr Ile Leu Trp Lys Asp Ile Phe His Lys Asn
 165 170 175
 Asn Gln Leu Ala Leu Thr Leu Ile Asp Thr Asn Arg Ser Arg Ala Cys
 180 185 190
 His Pro Cys Ser Pro Met Cys Lys Gly Ser Arg Cys Trp Gly Glu Ser
 195 200 205
 Ser Glu Asp Cys Gln Ser Leu Thr Arg Thr Val Cys Ala Gly Gly Cys
 210 215 220
 Ala Arg Cys Lys Gly Pro Leu Pro Thr Asp Cys Cys His Glu Gln Cys
 225 230 235 240
 Ala Ala Gly Cys Thr Gly Pro Lys His Ser Asp Cys Leu Ala Cys Leu
 245 250 255
 His Phe Asn His Ser Gly Ile Cys Glu Leu His Cys Pro Ala Leu Val
 260 265 270
 Thr Tyr Asn Thr Asp Thr Phe Glu Ser Met Pro Asn Pro Glu Gly Arg
 275 280 285
 Tyr Thr Phe Gly Ala Ser Cys Val Thr Ala Cys Pro Tyr Asn Tyr Leu
 290 295 300
 Ser Thr Asp Val Gly Ser Cys Thr Leu Val Cys Pro Leu His Asn Gln
 305 310 315 320
 Glu Val Thr Ala Glu Asp Gly Thr Gln Arg Cys Glu Lys Cys Ser Lys
 325 330 335
 Pro Cys Ala Arg Val Cys Tyr Gly Leu Gly Met Glu His Leu Arg Glu
 340 345 350

Siemens 0022 Seq Listing.txt

Val	Arg	Ala	Val	Thr	Ser	Ala	Asn	Ile	Gln	Glu	Phe	Ala	Gly	Cys	Lys
		355					360					365			
Lys	Ile	Phe	Gly	Ser	Leu	Ala	Phe	Leu	Pro	Glu	Ser	Phe	Asp	Gly	Asp
	370					375					380				
Pro	Ala	Ser	Asn	Thr	Ala	Pro	Leu	Gln	Pro	Glu	Gln	Leu	Gln	Val	Phe
385					390					395					400
Glu	Thr	Leu	Glu	Glu	Ile	Thr	Gly	Tyr	Leu	Tyr	Ile	Ser	Ala	Trp	Pro
				405					410					415	
Asp	Ser	Leu	Pro	Asp	Leu	Ser	Val	Phe	Gln	Asn	Leu	Gln	Val	Ile	Arg
			420					425					430		
Gly	Arg	Ile	Leu	His	Asn	Gly	Ala	Tyr	Ser	Leu	Thr	Leu	Gln	Gly	Leu
	435						440					445			
Gly	Ile	Ser	Trp	Leu	Gly	Leu	Arg	Ser	Leu	Arg	Glu	Leu	Gly	Ser	Gly
	450					455					460				
Leu	Ala	Leu	Ile	His	His	Asn	Thr	His	Leu	Cys	Phe	Val	His	Thr	Val
465					470					475					480
Pro	Trp	Asp	Gln	Leu	Phe	Arg	Asn	Pro	His	Gln	Ala	Leu	Leu	His	Thr
				485					490					495	
Ala	Asn	Arg	Pro	Glu	Asp	Glu	Cys	Val	Gly	Glu	Gly	Leu	Ala	Cys	His
			500					505					510		
Gln	Leu	Cys	Ala	Arg	Gly	His	Cys	Trp	Gly	Pro	Gly	Pro	Thr	Gln	Cys
		515					520					525			
Val	Asn	Cys	Ser	Gln	Phe	Leu	Arg	Gly	Gln	Glu	Cys	Val	Glu	Glu	Cys
	530					535					540				
Arg	Val	Leu	Gln	Gly	Leu	Pro	Arg	Glu	Tyr	Val	Asn	Ala	Arg	His	Cys
545					550					555					560
Leu	Pro	Cys	His	Pro	Glu	Cys	Gln	Pro	Gln	Asn	Gly	Ser	Val	Thr	Cys
				565					570					575	
Phe	Gly	Pro	Glu	Ala	Asp	Gln	Cys	Val	Ala	Cys	Ala	His	Tyr	Lys	Asp
			580					585					590		
Pro	Pro	Phe	Cys	Val	Ala	Arg	Cys	Pro	Ser	Gly	Val	Lys	Pro	Asp	Leu
		595					600					605			
Ser	Tyr	Met	Pro	Ile	Trp	Lys	Phe	Pro	Asp	Glu	Glu	Gly	Ala	Cys	Gln
	610					615					620				
Pro	Cys	Pro	Ile	Asn	Cys	Thr	His	Ser	Cys	Val	Asp	Leu	Asp	Asp	Lys
625					630					635					640
Gly	Cys	Pro	Ala	Glu	Gln	Arg	Ala	Ser	Pro	Leu	Thr	Ser	Ile	Val	Ser
				645						650				655	
Ala	Val	Val	Gly	Ile	Leu	Leu	Val	Val	Val	Leu	Gly	Val	Val	Phe	Gly
			660					665					670		
Ile	Leu	Ile	Lys	Arg	Arg	Gln	Gln	Lys	Ile	Arg	Lys	Tyr	Thr	Met	Arg
		675					680					685			
Arg	Leu	Leu	Gln	Glu	Thr	Glu	Leu	Val	Glu	Pro	Leu	Thr	Pro	Ser	Gly
	690					695					700				
Ala	Met	Pro	Asn	Gln	Ala	Gln	Met	Arg	Ile	Leu	Lys	Glu	Thr	Glu	Leu
705					710					715					720
Arg	Lys	Val	Lys	Val	Leu	Gly	Ser	Gly	Ala	Phe	Gly	Thr	Val	Tyr	Lys
				725					730					735	
Gly	Ile	Trp	Ile	Pro	Asp	Gly	Glu	Asn	Val	Lys	Ile	Pro	Val	Ala	Ile
			740					745					750		
Lys	Val	Leu	Arg	Glu	Asn	Thr	Ser	Pro	Lys	Ala	Asn	Lys	Glu	Ile	Leu
		755					760					765			
Asp	Glu	Ala	Tyr	Val	Met	Ala	Gly	Val	Gly	Ser	Pro	Tyr	Val	Ser	Arg
	770					775					780				
Leu	Leu	Gly	Ile	Cys	Leu	Thr	Ser	Thr	Val	Gln	Leu	Val	Thr	Gln	Leu
785					790					795					800
Met	Pro	Tyr	Gly	Cys	Leu	Leu	Asp	His	Val	Arg	Glu	Asn	Arg	Gly	Arg
				805					810					815	
Leu	Gly	Ser	Gln	Asp	Leu	Leu	Asn	Trp	Cys	Met	Gln	Ile	Ala	Lys	Gly
			820					825					830		
Met	Ser	Tyr	Leu	Glu	Asp	Val	Arg	Leu	Val	His	Arg	Asp	Leu	Ala	Ala
		835					840					845			
Arg	Asn	Val	Leu	Val	Lys	Ser	Pro	Asn	His	Val	Lys	Ile	Thr	Asp	Phe

Siemens 0022 Seq Listing.txt

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      850      855      860
Gly Leu Ala Arg Leu Leu Asp Ile Asp Glu Thr Glu Tyr His Ala Asp
865      870      875      880
Gly Gly Lys Val Pro Ile Lys Trp Met Ala Leu Glu Ser Ile Leu Arg
      885      890      895
Arg Arg Phe Thr His Gln Ser Asp Val Trp Ser Tyr Gly Val Thr Val
      900      905      910
Trp Glu Leu Met Thr Phe Gly Ala Lys Pro Tyr Asp Gly Ile Pro Ala
      915      920      925
Arg Glu Ile Pro Asp Leu Leu Glu Lys Gly Glu Arg Leu Pro Gln Pro
      930      935      940
Pro Ile Cys Thr Ile Asp Val Tyr Met Ile Met Val Lys Cys Trp Met
945      950      955      960
Ile Asp Ser Glu Cys Arg Pro Arg Phe Arg Glu Leu Val Ser Glu Phe
      965      970      975
Ser Arg Met Ala Arg Asp Pro Gln Arg Phe Val Val Ile Gln Asn Glu
      980      985      990
Asp Leu Gly Pro Ala Ser Pro Leu Asp Ser Thr Phe Tyr Arg Ser Leu
      995      1000      1005
Leu Glu Asp Asp Asp Met Gly Asp Leu Val Asp Ala Glu Glu Tyr
      1010      1015      1020
Leu Val Pro Gln Gln Gly Phe Phe Cys Pro Asp Pro Ala Pro Gly
      1025      1030      1035
Ala Gly Gly Met Val His His Arg His Arg Ser Ser Ser Thr Arg
      1040      1045      1050
Ser Gly Gly Gly Asp Leu Thr Leu Gly Leu Glu Pro Ser Glu Glu
      1055      1060      1065
Glu Ala Pro Arg Ser Pro Leu Ala Pro Ser Glu Gly Ala Gly Ser
      1070      1075      1080
Asp Val Phe Asp Gly Asp Leu Gly Met Gly Ala Ala Lys Gly Leu
      1085      1090      1095
Gln Ser Leu Pro Thr His Asp Pro Ser Pro Leu Gln Arg Tyr Ser
      1100      1105      1110
Glu Asp Pro Thr Val Pro Leu Pro Ser Glu Thr Asp Gly Tyr Val
      1115      1120      1125
Ala Pro Leu Thr Cys Ser Pro Gln Pro Glu Tyr Val Asn Gln Pro
      1130      1135      1140
Asp Val Arg Pro Gln Pro Pro Ser Pro Arg Glu Gly Pro Leu Pro
      1145      1150      1155
Ala Ala Arg Pro Ala Gly Ala Thr Leu Glu Arg Ala Lys Thr Leu
      1160      1165      1170
Ser Pro Gly Lys Asn Gly Val Val Lys Asp Val Phe Ala Phe Gly
      1175      1180      1185
Gly Ala Val Glu Asn Pro Glu Tyr Leu Thr Pro Gln Gly Gly Ala
      1190      1195      1200
Ala Pro Gln Pro His Pro Pro Pro Ala Phe Ser Pro Ala Phe Asp
      1205      1210      1215
Asn Leu Tyr Tyr Trp Asp Gln Asp Pro Pro Glu Arg Gly Ala Pro
      1220      1225      1230
Pro Ser Thr Phe Lys Gly Thr Pro Thr Ala Glu Asn Pro Glu Tyr
      1235      1240      1245
Leu Gly Leu Asp Val Pro Val
      1250      1255

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<210> 37

<211> 532

<212> PRT

<213> Homo sapiens

<400> 37

Met Glu Leu Asp Leu Ser Pro Pro His Leu Ser Ser Ser Pro Glu Asp

Siemens 0022 Seq Listing.txt

1	Leu	Trp	Pro	Ala	5	Pro	Gly	Thr	Pro	Pro	10	Gly	Thr	Pro	Arg	Pro	15	Pro	Asp
				20						25						30			
	Thr	Pro	Leu	Pro	Glu	Glu	Val	Lys	Arg	Ser	Gln	Pro	Leu	Leu	Ile	Pro			
		35						40						45					
	Thr	Thr	Gly	Arg	Lys	Leu	Arg	Glu	Glu	Glu	Arg	Arg	Ala	Thr	Ser	Leu			
		50					55				60								
	Pro	Ser	Ile	Pro	Asn	Pro	Phe	Pro	Glu	Leu	Cys	Ser	Pro	Pro	Ser	Gln			
65					70						75					80			
	Ser	Pro	Ile	Leu	Gly	Gly	Pro	Ser	Ser	Ala	Arg	Gly	Leu	Leu	Pro	Arg			
				85						90					95				
	Asp	Ala	Ser	Arg	Pro	His	Val	Val	Lys	Val	Tyr	Ser	Glu	Asp	Gly	Ala			
				100					105					110					
	Cys	Arg	Ser	Val	Glu	Val	Ala	Ala	Gly	Ala	Thr	Ala	Arg	His	Val	Cys			
				115				120					125						
	Glu	Met	Leu	Val	Gln	Arg	Ala	His	Ala	Leu	Ser	Asp	Glu	Thr	Trp	Gly			
		130					135					140							
	Leu	Val	Glu	Cys	His	Pro	His	Leu	Ala	Leu	Glu	Arg	Gly	Leu	Glu	Asp			
145					150						155					160			
	His	Glu	Ser	Val	Val	Glu	Val	Gln	Ala	Ala	Trp	Pro	Val	Gly	Gly	Asp			
				165						170					175				
	Ser	Arg	Phe	Val	Phe	Arg	Lys	Asn	Phe	Ala	Lys	Tyr	Glu	Leu	Phe	Lys			
				180					185					190					
	Ser	Ser	Pro	His	Ser	Leu	Phe	Pro	Glu	Lys	Met	Val	Ser	Ser	Cys	Leu			
			195					200					205						
	Asp	Ala	His	Thr	Gly	Ile	Ser	His	Glu	Asp	Leu	Ile	Gln	Asn	Phe	Leu			
				210			215					220							
	Asn	Ala	Gly	Ser	Phe	Pro	Glu	Ile	Gln	Gly	Phe	Leu	Gln	Leu	Arg	Gly			
225					230						235					240			
	Ser	Gly	Arg	Lys	Leu	Trp	Lys	Arg	Phe	Phe	Cys	Phe	Leu	Arg	Arg	Ser			
				245						250					255				
	Gly	Leu	Tyr	Tyr	Ser	Thr	Lys	Gly	Thr	Ser	Lys	Asp	Pro	Arg	His	Leu			
				260					265					270					
	Gln	Tyr	Val	Ala	Asp	Val	Asn	Glu	Ser	Asn	Val	Tyr	Val	Val	Thr	Gln			
				275				280					285						
	Gly	Arg	Lys	Leu	Tyr	Gly	Met	Pro	Thr	Asp	Phe	Gly	Phe	Cys	Val	Lys			
		290					295					300							
	Pro	Asn	Lys	Leu	Arg	Asn	Gly	His	Lys	Gly	Leu	Arg	Ile	Phe	Cys	Ser			
305					310						315					320			
	Glu	Asp	Glu	Gln	Ser	Arg	Thr	Cys	Trp	Leu	Ala	Ala	Phe	Arg	Leu	Phe			
				325						330					335				
	Lys	Tyr	Gly	Val	Gln	Leu	Tyr	Lys	Asn	Tyr	Gln	Gln	Ala	Gln	Ser	Arg			
				340					345					350					
	His	Leu	His	Pro	Ser	Cys	Leu	Gly	Ser	Pro	Pro	Leu	Arg	Ser	Ala	Ser			
				355				360					365						
	Asp	Asn	Thr	Leu	Val	Ala	Met	Asp	Phe	Ser	Gly	His	Ala	Gly	Arg	Val			
				370			375					380							
	Ile	Glu	Asn	Pro	Arg	Glu	Ala	Leu	Ser	Val	Ala	Leu	Glu	Glu	Ala	Gln			
385					390						395					400			
	Ala	Trp	Arg	Lys	Lys	Thr	Asn	His	Arg	Leu	Ser	Leu	Pro	Met	Pro	Ala			
				405						410					415				
	Ser	Gly	Thr	Ser	Leu	Ser	Ala	Ala	Ile	His	Arg	Thr	Gln	Leu	Trp	Phe			
				420					425					430					
	His	Gly	Arg	Ile	Ser	Arg	Glu	Glu	Ser	Gln	Arg	Leu	Ile	Gly	Gln	Gln			
				435				440					445						
	Gly	Leu	Val	Asp	Gly	Leu	Phe	Leu	Val	Arg	Glu	Ser	Gln	Arg	Asn	Pro			
		450					455					460							
	Gln	Gly	Phe	Val	Leu	Ser	Leu	Cys	His	Leu	Gln	Lys	Val	Lys	His	Tyr			
465					470						475					480			
	Leu	Ile	Leu	Pro	Ser	Glu	Glu	Glu	Gly	Arg	Leu	Tyr	Phe	Ser	Met	Asp			
				485						490					495				
	Asp	Gly	Gln	Thr	Arg	Phe	Thr	Asp	Leu	Gln	Leu	Val	Glu	Phe	His				
				500					505				510						

Siemens 0022 Seq Listing.txt

Gln Leu Asn Arg Gly Ile Leu Pro Cys Leu Leu Arg His Cys Cys Thr
 515 520 525
 Arg Val Ala Leu
 530
 <210> 38
 <211> 534
 <212> PRT
 <213> Homo sapiens
 <400> 38
 Met Lys Gln Glu Gly Ser Ala Arg Arg Arg Gly Ala Asp Lys Ala Lys
 1 5 10 15
 Pro Pro Pro Gly Gly Gly Glu Gln Glu Pro Pro Pro Pro Pro Ala Pro
 20 25 30
 Gln Asp Val Glu Met Lys Glu Glu Ala Ala Thr Gly Gly Ser Thr
 35 40 45
 Gly Glu Ala Asp Gly Lys Thr Ala Ala Ala Ala Val Glu His Ser Gln
 50 55 60
 Arg Glu Leu Asp Thr Val Thr Leu Glu Asp Ile Lys Glu His Val Lys
 65 70 75 80
 Gln Leu Glu Lys Ala Val Ser Gly Lys Glu Pro Arg Phe Val Leu Arg
 85 90 95
 Ala Leu Arg Met Leu Pro Ser Thr Ser Arg Arg Leu Asn His Tyr Val
 100 105 110
 Leu Tyr Lys Ala Val Gln Gly Phe Phe Thr Ser Asn Asn Ala Thr Arg
 115 120 125
 Asp Phe Leu Leu Pro Phe Leu Glu Glu Pro Met Asp Thr Glu Ala Asp
 130 135 140
 Leu Gln Phe Arg Pro Arg Thr Gly Lys Ala Ala Ser Thr Pro Leu Leu
 145 150 155 160
 Pro Glu Val Glu Ala Tyr Leu Gln Leu Leu Val Val Ile Phe Met Met
 165 170 175
 Asn Ser Lys Arg Tyr Lys Glu Ala Gln Lys Ile Ser Asp Asp Leu Met
 180 185 190
 Gln Lys Ile Ser Thr Gln Asn Arg Ala Leu Asp Leu Val Ala Ala
 195 200 205
 Lys Cys Tyr Tyr Tyr His Ala Arg Val Tyr Glu Phe Leu Asp Lys Leu
 210 215 220
 Asp Val Val Arg Ser Phe Leu His Ala Arg Leu Arg Thr Ala Thr Leu
 225 230 235 240
 Arg His Asp Ala Asp Gly Gln Ala Thr Leu Leu Asn Leu Leu Leu Arg
 245 250 255
 Asn Tyr Leu His Tyr Ser Leu Tyr Asp Gln Ala Glu Lys Leu Val Ser
 260 265 270
 Lys Ser Val Phe Pro Glu Gln Ala Asn Asn Asn Glu Trp Ala Arg Tyr
 275 280 285
 Leu Tyr Tyr Thr Gly Arg Ile Lys Ala Ile Gln Leu Glu Tyr Ser Glu
 290 295 300
 Ala Arg Arg Thr Met Thr Asn Ala Leu Arg Lys Ala Pro Gln His Thr
 305 310 315 320
 Ala Val Gly Phe Lys Gln Thr Val His Lys Leu Leu Ile Val Val Glu
 325 330 335
 Leu Leu Leu Gly Glu Ile Pro Asp Arg Leu Gln Phe Arg Gln Pro Ser
 340 345 350
 Leu Lys Arg Ser Leu Met Pro Tyr Phe Leu Leu Thr Gln Ala Val Arg
 355 360 365
 Thr Gly Asn Leu Ala Lys Phe Asn Gln Val Leu Asp Gln Phe Gly Glu
 370 375 380
 Lys Phe Gln Ala Asp Gly Thr Tyr Thr Leu Ile Ile Arg Leu Arg His
 385 390 395 400

Siemens 0022 Seq Listing.txt

Asn Val Ile Lys Thr Gly Val Arg Met Ile Ser Leu Ser Tyr Ser Arg
 405 410 415
 Ile Ser Leu Ala Asp Ile Ala Gln Lys Leu Gln Leu Asp Ser Pro Glu
 420 425 430
 Asp Ala Glu Phe Ile Val Ala Lys Ala Ile Arg Asp Gly Val Ile Glu
 435 440 445
 Ala Ser Ile Asn His Glu Lys Gly Tyr Val Gln Ser Lys Glu Met Ile
 450 455 460
 Asp Ile Tyr Ser Thr Arg Glu Pro Gln Leu Ala Phe His Gln Arg Ile
 465 470 475 480
 Ser Phe Cys Leu Asp Ile His Asn Met Ser Val Lys Ala Met Arg Phe
 485 490 495
 Pro Pro Lys Ser Tyr Asn Lys Asp Leu Glu Ser Ala Glu Glu Arg Arg
 500 505 510
 Glu Arg Glu Gln Gln Asp Leu Glu Phe Ala Lys Glu Met Ala Glu Asp
 515 520 525
 Asp Asp Asp Ser Phe Pro
 530

<210> 39

<211> 207

<212> PRT

<213> Homo sapiens

<400> 39

Met Ala Gly Pro Ala Thr Gln Ser Pro Met Lys Leu Met Ala Leu Gln
 1 5 10 15
 Leu Leu Leu Trp His Ser Ala Leu Trp Thr Val Gln Glu Ala Thr Pro
 20 25 30
 Leu Gly Pro Ala Ser Ser Leu Pro Gln Ser Phe Leu Leu Lys Cys Leu
 35 40 45
 Glu Gln Val Arg Lys Ile Gln Gly Asp Gly Ala Ala Leu Gln Glu Lys
 50 55 60
 Leu Val Ser Glu Cys Ala Thr Tyr Lys Leu Cys His Pro Glu Glu Leu
 65 70 75 80
 Val Leu Leu Gly His Ser Leu Gly Ile Pro Trp Ala Pro Leu Ser Ser
 85 90 95
 Cys Pro Ser Gln Ala Leu Gln Leu Ala Gly Cys Leu Ser Gln Leu His
 100 105 110
 Ser Gly Leu Phe Leu Tyr Gln Gly Leu Leu Gln Ala Leu Glu Gly Ile
 115 120 125
 Ser Pro Glu Leu Gly Pro Thr Leu Asp Thr Leu Gln Leu Asp Val Ala
 130 135 140
 Asp Phe Ala Thr Thr Ile Trp Gln Gln Met Glu Glu Leu Gly Met Ala
 145 150 155 160
 Pro Ala Leu Gln Pro Thr Gln Gly Ala Met Pro Ala Phe Ala Ser Ala
 165 170 175
 Phe Gln Arg Arg Ala Gly Gly Val Leu Val Ala Ser His Leu Gln Ser
 180 185 190
 Phe Leu Glu Val Ser Tyr Arg Val Leu Arg His Leu Ala Gln Pro
 195 200 205

<210> 40

<211> 989

<212> PRT

<213> Homo sapiens

<400> 40

Met Lys Val Val Asn Leu Lys Gln Ala Ile Leu Gln Ala Trp Lys Glu
 Page 49

Siemens 0022 Seq Listing.txt

1	Arg	Trp	Ser	Tyr	5	Tyr	Gln	Trp	Ala	Ile	10	Asn	Met	Lys	Lys	15	Phe	Phe	Pro
				20						25							30		
	Lys	Gly	Ala	Thr		Trp	Asp	Ile	Leu	Asn		Leu	Ala	Asp	Ala		Leu	Leu	Glu
			35					40							45				
	Gln	Ala	Met	Ile		Gly	Pro	Ser	Pro	Asn		Pro	Leu	Ile		Leu	Ser	Tyr	Leu
		50						55						60					
	Lys	Tyr	Ala	Ile		Ser	Ser	Gln	Met	Val		Ser	Tyr	Ser	Ser	Val	Leu	Thr	
65						70						75						80	
	Ala	Ile	Ser	Lys		Phe	Asp	Asp	Phe	Ser		Arg	Asp	Leu	Cys	Val	Gln	Ala	
				85								90					95		
	Leu	Leu	Asp	Ile		Met	Asp	Met	Phe	Cys		Asp	Arg	Leu	Ser	Cys	His	Gly	
				100						105						110			
	Lys	Ala	Glu	Glu		Cys	Ile	Gly	Leu	Cys		Arg	Ala	Leu	Leu	Ser	Ala	Leu	
			115						120						125				
	His	Trp	Leu	Leu		Arg	Cys	Thr	Ala	Ala		Ser	Ala	Glu	Arg	Leu	Arg	Glu	
		130						135						140					
	Gly	Leu	Glu	Ala		Gly	Thr	Pro	Ala	Ala		Gly	Glu	Lys	Gln	Leu	Ala	Met	
145							150						155					160	
	Cys	Leu	Gln	Arg		Leu	Glu	Lys	Thr	Leu		Ser	Ser	Thr	Lys	Asn	Arg	Ala	
						165						170					175		
	Leu	Leu	His	Ile		Ala	Lys	Leu	Glu	Glu		Ala	Ser	Ser	Trp	Thr	Ala	Ile	
				180						185						190			
	Glu	His	Ser	Leu		Leu	Lys	Leu	Gly	Glu		Ile	Leu	Thr	Asn	Leu	Ser	Asn	
			195						200						205				
	Pro	Gln	Leu	Arg		Ser	Gln	Ala	Glu	Gln		Cys	Gly	Thr	Leu	Ile	Arg	Ser	
		210						215						220					
	Ile	Pro	Thr	Met		Leu	Ser	Val	His	Ala		Glu	Gln	Met	His	Lys	Thr	Gly	
225							230						235					240	
	Phe	Pro	Thr	Val		His	Ala	Val	Ile	Leu		Leu	Glu	Gly	Thr	Met	Asn	Leu	
						245						250					255		
	Thr	Gly	Glu	Thr		Gln	Ser	Leu	Val	Glu		Gln	Leu	Thr	Met	Val	Lys	Arg	
				260						265						270			
	Met	Gln	His	Ile		Pro	Thr	Pro	Leu	Phe		Val	Leu	Glu	Ile	Trp	Lys	Ala	
			275						280						285				
	Cys	Phe	Val	Gly		Leu	Ile	Glu	Ser	Pro		Glu	Gly	Thr	Glu	Glu	Leu	Lys	
		290						295						300					
	Trp	Thr	Ala	Phe		Thr	Phe	Leu	Lys	Ile		Pro	Gln	Val	Leu	Val	Lys	Leu	
305							310						315					320	
	Lys	Lys	Tyr	Ser		His	Gly	Asp	Lys	Asp		Phe	Thr	Glu	Asp	Val	Asn	Cys	
						325						330					335		
	Ala	Phe	Glu	Phe		Leu	Leu	Lys	Leu	Thr		Pro	Leu	Leu	Asp	Lys	Ala	Asp	
				340						345						350			
	Gln	Arg	Cys	Asn		Cys	Asp	Cys	Thr	Asn		Phe	Leu	Leu	Gln	Glu	Cys	Gly	
			355						360						365				
	Lys	Gln	Gly	Leu		Leu	Ser	Glu	Ala	Ser		Val	Asn	Asn	Leu	Met	Ala	Lys	
								375						380					
	Arg	Lys	Ala	Asp		Arg	Glu	His	Ala	Pro		Gln	Gln	Lys	Ser	Gly	Glu	Asn	
385							390						395					400	
	Ala	Asn	Ile	Gln		Pro	Asn	Ile	Gln	Leu		Ile	Leu	Arg	Ala	Glu	Pro	Thr	
						405						410					415		
	Val	Thr	Asn	Ile		Leu	Lys	Thr	Met	Asp		Ala	Asp	His	Ser	Lys	Ser	Pro	
				420						425						430			
	Glu	Gly	Leu	Leu		Gly	Val	Leu	Gly	His		Met	Leu	Ser	Gly	Lys	Ser	Leu	
			435						440						445				
	Asp	Leu	Leu	Ala		Ala	Ala	Ala	Ala	Thr		Gly	Lys	Leu	Lys	Ser	Phe		
						455							460						
	Ala	Arg	Lys	Phe		Ile	Asn	Leu	Asn	Glu		Phe	Thr	Thr	Tyr	Gly	Ser	Glu	
465							470						475					480	
	Glu	Ser	Thr	Lys		Pro	Ala	Ser	Val	Arg		Ala	Leu	Leu	Phe	Asp	Ile	Ser	
						485						490					495		
	Phe	Leu	Met	Leu		Cys	His	Val	Ala	Gln		Thr	Tyr	Gly	Ser	Glu	Val	Ile	
				500						505						510			

Siemens 0022 Seq Listing.txt

```

Leu Ser Glu Ser Arg Thr Gly Ala Glu Val Pro Phe Phe Glu Thr Trp
515 520 525
Met Gln Thr Cys Met Pro Glu Glu Gly Lys Ile Leu Asn Pro Asp His
530 535 540
Pro Cys Phe Arg Pro Asp Ser Thr Lys Val Glu Ser Leu Val Ala Leu
545 550 555 560
Leu Asn Asn Ser Ser Glu Met Lys Leu Val Gln Met Lys Trp His Glu
565 570 575
Ala Cys Leu Ser Ile Ser Ala Ala Ile Leu Glu Ile Leu Asn Ala Trp
580 585 590
Glu Asn Gly Val Leu Ala Phe Glu Ser Ile Gln Lys Ile Thr Asp Asn
595 600 605
Ile Lys Gly Lys Val Cys Ser Leu Ala Val Cys Ala Val Ala Trp Leu
610 615 620
Val Ala His Val Arg Met Leu Gly Leu Asp Glu Arg Glu Lys Ser Leu
625 630 635 640
Gln Met Ile Arg Gln Leu Ala Gly Pro Leu Phe Ser Glu Asn Thr Leu
645 650 655
Gln Phe Tyr Asn Glu Arg Val Val Ile Met Asn Ser Ile Leu Glu Arg
660 665 670
Met Cys Ala Asp Val Leu Gln Gln Thr Ala Thr Gln Ile Lys Phe Pro
675 680 685
Ser Thr Gly Val Asp Thr Met Pro Tyr Trp Asn Leu Leu Pro Pro Lys
690 695 700
Arg Pro Ile Lys Glu Val Leu Thr Asp Ile Phe Ala Lys Val Leu Glu
705 710 715 720
Lys Gly Trp Val Asp Ser Arg Ser Ile His Ile Phe Asp Thr Leu Leu
725 730 735
His Met Gly Gly Val Tyr Trp Phe Cys Asn Asn Leu Ile Lys Glu Leu
740 745 750
Leu Lys Glu Thr Arg Lys Glu His Thr Leu Arg Ala Val Glu Leu Leu
755 760 765
Tyr Ser Ile Phe Cys Leu Asp Met Gln Gln Val Thr Leu Val Leu Leu
770 775 780
Gly His Ile Leu Pro Gly Leu Leu Thr Asp Ser Ser Lys Trp His Ser
785 790 795 800
Leu Met Asp Pro Pro Gly Thr Ala Leu Ala Lys Leu Ala Val Trp Cys
805 810 815
Ala Leu Ser Ser Tyr Ser Ser His Lys Gly Gln Ala Ser Thr Arg Gln
820 825 830
Lys Lys Arg His Arg Glu Asp Ile Glu Asp Tyr Ile Ser Leu Phe Pro
835 840 845
Leu Asp Asp Val Gln Pro Ser Lys Leu Met Arg Leu Leu Ser Ser Asn
850 855 860
Glu Asp Asp Ala Asn Ile Leu Ser Ser Pro Thr Asp Arg Ser Met Ser
865 870 875 880
Ser Ser Leu Ser Ala Ser Gln Leu His Thr Val Asn Met Arg Asp Pro
885 890 895
Leu Asn Arg Val Leu Ala Asn Leu Phe Leu Leu Ile Ser Ser Ile Leu
900 905 910
Gly Ser Arg Thr Ala Gly Pro His Thr Gln Phe Val Gln Trp Phe Met
915 920 925
Glu Glu Cys Val Asp Cys Leu Glu Gln Gly Gly Arg Gly Ser Val Leu
930 935 940
Gln Phe Met Pro Phe Thr Thr Val Ser Glu Leu Val Lys Val Ser Ala
945 950 955 960
Met Ser Ser Pro Lys Val Val Leu Ala Ile Thr Asp Leu Ser Leu Pro
965 970 975
Leu Gly Arg Gln Val Ala Ala Lys Ala Ile Ala Ala Leu
980 985

```

<210> 41

<211> 490

Siemens 0022 Seq Listing.txt

<212> PRT

<213> Homo sapiens

<400> 41

```

Met Glu Gln Lys Pro Ser Lys Val Glu Cys Gly Ser Asp Pro Glu Glu
1      5      10      15
Asn Ser Ala Arg Ser Pro Asp Gly Lys Arg Lys Arg Lys Asn Gly Gln
20     25     30
Cys Ser Leu Lys Thr Ser Met Ser Gly Tyr Ile Pro Ser Tyr Leu Asp
35     40     45
Lys Asp Glu Gln Cys Val Val Cys Gly Asp Lys Ala Thr Gly Tyr His
50     55     60
Tyr Arg Cys Ile Thr Cys Glu Gly Cys Lys Gly Phe Phe Arg Arg Thr
65     70     75     80
Ile Gln Lys Asn Leu His Pro Thr Tyr Ser Cys Lys Tyr Asp Ser Cys
85     90     95
Cys Val Ile Asp Lys Ile Thr Arg Asn Gln Cys Gln Leu Cys Arg Phe
100    105    110
Lys Lys Cys Ile Ala Val Gly Met Ala Met Asp Leu Val Leu Asp Asp
115    120    125
Ser Lys Arg Val Ala Lys Arg Lys Leu Ile Glu Gln Asn Arg Glu Arg
130    135    140
Arg Arg Lys Glu Glu Met Ile Arg Ser Leu Gln Arg Pro Glu Pro
145    150    155    160
Thr Pro Glu Glu Trp Asp Leu Ile His Ile Ala Thr Glu Ala His Arg
165    170    175
Ser Thr Asn Ala Gln Gly Ser His Trp Lys Gln Arg Arg Lys Phe Leu
180    185    190
Pro Asp Asp Ile Gly Gln Ser Pro Ile Val Ser Met Pro Asp Gly Asp
195    200    205
Lys Val Asp Leu Glu Ala Phe Ser Glu Phe Thr Lys Ile Ile Thr Pro
210    215    220
Ala Ile Thr Arg Val Val Asp Phe Ala Lys Lys Leu Pro Met Phe Ser
225    230    235    240
Glu Leu Pro Cys Glu Asp Gln Ile Ile Leu Leu Lys Gly Cys Cys Met
245    250    255
Glu Ile Met Ser Leu Arg Ala Ala Val Arg Tyr Asp Pro Glu Ser Asp
260    265    270
Thr Leu Thr Leu Ser Gly Glu Met Ala Val Lys Arg Glu Gln Leu Lys
275    280    285
Asn Gly Gly Leu Gly Val Val Ser Asp Ala Ile Phe Glu Leu Gly Lys
290    295    300
Ser Leu Ser Ala Phe Asn Leu Asp Asp Thr Glu Val Ala Leu Leu Gln
305    310    315    320
Ala Val Leu Leu Met Ser Thr Asp Arg Ser Gly Leu Leu Cys Val Asp
325    330    335
Lys Ile Glu Lys Ser Gln Glu Ala Tyr Leu Leu Ala Phe Glu His Tyr
340    345    350
Val Asn His Arg Lys His Asn Ile Pro His Phe Trp Pro Lys Leu Leu
355    360    365
Met Lys Glu Arg Glu Val Gln Ser Ser Ile Leu Tyr Lys Gly Ala Ala
370    375    380
Ala Glu Gly Arg Pro Gly Gly Ser Leu Gly Val His Pro Glu Gly Gln
385    390    395    400
Gln Leu Leu Gly Met His Val Val Gln Gly Pro Gln Val Arg Gln Leu
405    410    415
Glu Gln Gln Leu Gly Glu Ala Gly Ser Leu Gln Gly Pro Val Leu Gln
420    425    430
His Gln Ser Pro Lys Ser Pro Gln Arg Leu Leu Glu Leu Leu His
435    440    445
Arg Ser Gly Ile Leu His Ala Arg Ala Val Cys Gly Glu Asp Asp Ser

```

Siemens 0022 Seq Listing.txt

450
Ser Glu Ala Asp Ser Pro Ser Ser Ser Glu Glu Glu Pro Glu Val Cys
465 470 475 480
Glu Asp Leu Ala Gly Asn Ala Ala Ser Pro
485 490

<210> 42

<211> 614

<212> PRT

<213> Homo sapiens

<400> 42

Met Thr Thr Leu Asp Ser Asn Asn Asn Thr Gly Gly Val Ile Thr Tyr
1 5 10 15
Ile Gly Ser Ser Gly Ser Ser Pro Ser Arg Thr Ser Pro Glu Ser Leu
20 25 30
Tyr Ser Asp Asn Ser Asn Gly Ser Phe Gln Ser Leu Thr Gln Gly Cys
35 40 45
Pro Thr Tyr Phe Pro Pro Ser Pro Thr Gly Ser Leu Thr Gln Asp Pro
50 55 60
Ala Arg Ser Phe Gly Ser Ile Pro Pro Ser Leu Ser Asp Asp Gly Ser
65 70 75 80
Pro Ser Ser Ser Ser Ser Ser Ser Ser Ser Ser Ser Phe Tyr Asn
85 90 95
Gly Ser Pro Pro Gly Ser Leu Gln Val Ala Met Glu Asp Ser Ser Arg
100 105 110
Val Ser Pro Ser Lys Ser Thr Ser Asn Ile Thr Lys Leu Asn Gly Met
115 120 125
Val Leu Cys Lys Val Cys Gly Asp Val Ala Ser Gly Phe His Tyr
130 135 140
Gly Val Leu Ala Cys Glu Gly Cys Lys Gly Phe Phe Arg Arg Ser Ile
145 150 155 160
Gln Gln Asn Ile Gln Tyr Lys Arg Cys Leu Lys Asn Glu Asn Cys Ser
165 170 175
Ile Val Arg Ile Asn Arg Asn Arg Cys Gln Gln Cys Arg Phe Lys Lys
180 185 190
Cys Leu Ser Val Gly Met Ser Arg Asp Ala Val Arg Phe Gly Arg Ile
195 200 205
Pro Lys Arg Glu Lys Gln Arg Met Leu Ala Glu Met Gln Ser Ala Met
210 215 220
Asn Leu Ala Asn Asn Gln Leu Ser Ser Gln Cys Pro Leu Glu Thr Ser
225 230 235 240
Pro Thr Gln His Pro Thr Pro Gly Pro Met Gly Pro Ser Pro Pro Pro
245 250 255
Ala Pro Val Pro Ser Pro Leu Val Gly Phe Ser Gln Phe Pro Gln Gln
260 265 270
Leu Thr Pro Pro Arg Ser Pro Ser Pro Glu Pro Thr Val Glu Asp Val
275 280 285
Ile Ser Gln Val Ala Arg Ala His Arg Glu Ile Phe Thr Tyr Ala His
290 295 300
Asp Lys Leu Gly Ser Ser Pro Gly Asn Phe Asn Ala Asn His Ala Ser
305 310 315 320
Gly Ser Pro Pro Ala Thr Thr Pro His Arg Trp Glu Asn Gln Gly Cys
325 330 335
Pro Pro Ala Pro Asn Asp Asn Asn Thr Leu Ala Ala Gln Arg His Asn
340 345 350
Glu Ala Leu Asn Gly Leu Arg Gln Ala Pro Ser Ser Tyr Pro Pro Thr
355 360 365
Trp Pro Pro Gly Pro Ala His Ser Cys His Gln Ser Asn Ser Asn
370 375 380
Gly His Arg Leu Cys Pro Thr His Val Tyr Ala Ala Pro Glu Gly Lys

Siemens 0022 Seq Listing.txt

```

385          390          395          400
Ala Pro Ala Asn Ser Pro Arg Gln Gly Asn Ser Lys Asn Val Leu Leu
405          410          415
Ala Cys Pro Met Asn Met Tyr Pro His Gly Arg Ser Gly Arg Thr Val
420          425          430
Gln Glu Ile Trp Glu Asp Phe Ser Met Ser Phe Thr Pro Ala Val Arg
435          440          445
Glu Val Val Glu Phe Ala Lys His Ile Pro Gly Phe Arg Asp Leu Ser
450          455          460
Gln His Asp Gln Val Thr Leu Leu Lys Ala Gly Thr Phe Glu Val Leu
465          470          475
Met Val Arg Phe Ala Ser Leu Phe Asn Val Lys Asp Gln Thr Val Met
485          490          495
Phe Leu Ser Arg Thr Thr Tyr Ser Leu Gln Glu Leu Gly Ala Met Gly
500          505          510
Met Gly Asp Leu Leu Ser Ala Met Phe Asp Phe Ser Glu Lys Leu Asn
515          520          525
Ser Leu Ala Leu Thr Glu Glu Leu Gly Leu Phe Thr Ala Val Val
530          535          540
Leu Val Ser Ala Asp Arg Ser Gly Met Glu Asn Ser Ala Ser Val Glu
545          550          555
Gln Leu Gln Glu Thr Leu Leu Arg Ala Leu Arg Ala Leu Val Leu Lys
565          570          575
Asn Arg Pro Leu Glu Thr Ser Arg Phe Thr Lys Leu Leu Leu Lys Leu
580          585          590
Pro Asp Leu Arg Thr Leu Asn Asn Met His Ser Glu Lys Leu Leu Ser
595          600          605
Phe Arg Val Asp Ala Gln
610

```

<210> 43

<211> 703

<212> PRT

<213> Homo sapiens

<400> 43

```

Met Ala Asp Arg Arg Arg Gln Arg Ala Ser Gln Asp Thr Glu Asp Glu
1          5          10          15
Glu Ser Gly Ala Ser Gly Ser Asp Ser Gly Gly Ser Pro Leu Arg Gly
20          25          30
Gly Gly Ser Cys Ser Gly Ser Ala Gly Gly Gly Ser Gly Ser Leu
35          40          45
Pro Ser Gln Arg Gly Gly Arg Thr Gly Ala Leu His Leu Arg Arg Val
50          55          60
Glu Ser Gly Gly Ala Lys Ser Ala Glu Glu Ser Glu Cys Glu Ser Glu
65          70          75          80
Asp Gly Ile Glu Gly Asp Ala Val Leu Ser Asp Tyr Glu Ser Ala Glu
85          90          95
Asp Ser Glu Gly Glu Glu Gly Glu Tyr Ser Glu Glu Glu Asn Ser Lys
100          105          110
Val Glu Leu Lys Ser Glu Ala Asn Asp Ala Val Asn Ser Ser Thr Lys
115          120          125
Glu Glu Lys Gly Glu Glu Lys Pro Asp Thr Lys Ser Thr Val Thr Gly
130          135          140
Glu Arg Gln Ser Gly Asp Gly Gln Glu Ser Thr Glu Pro Val Glu Asn
145          150          155          160
Lys Val Gly Lys Lys Gly Pro Lys His Leu Asp Asp Asp Glu Asp Arg
165          170          175
Lys Asn Pro Ala Tyr Ile Pro Arg Lys Gly Leu Phe Phe Glu His Asp
180          185          190
Leu Arg Gly Gln Thr Gln Glu Glu Glu Val Arg Pro Lys Gly Arg Gln

```

Siemens 0022 Seq Listing.txt

```

195
Arg Lys Leu Trp Lys Asp Glu 200 Gly Arg Trp Glu His 205 Asp Lys Phe Arg
210 215 220
Glu Asp Glu Gln Ala Pro Lys Ser Arg Gln Glu Leu Ile Ala Leu Tyr
225 230 235 240
Gly Tyr Asp Ile Arg Ser Ala His Asn Pro Asp Asp Ile Lys Pro Arg
245 250 255
Arg Ile Arg Lys Pro Arg Tyr Gly Ser Pro Pro Gln Arg Asp Pro Asn
260 265 270
Trp Asn Gly Glu Arg Leu Asn Lys Ser His Arg His Gln Gly Leu Gly
275 280 285
Gly Thr Leu Pro Pro Arg Thr Phe Ile Asn Arg Asn Ala Ala Gly Thr
290 295 300
Gly Arg Met Ser Ala Pro Arg Asn Tyr Ser Arg Ser Gly Gly Phe Lys
305 310 315 320
Glu Gly Arg Ala Gly Phe Arg Pro Val Glu Ala Gly Gly Gln His Gly
325 330 335
Gly Arg Ser Gly Glu Thr Val Lys His Glu Ile Ser Tyr Arg Ser Arg
340 345 350
Arg Leu Glu Gln Thr Ser Val Arg Asp Pro Ser Pro Glu Ala Asp Ala
355 360 365
Pro Val Leu Gly Ser Pro Glu Lys Glu Glu Ala Ala Ser Glu Pro Pro
370 375 380
Ala Ala Ala Pro Asp Ala Ala Pro Pro Pro Pro Asp Arg Pro Ile Glu
385 390 395 400
Lys Lys Ser Tyr Ser Arg Ala Arg Arg Thr Arg Thr Lys Val Gly Asp
405 410 415
Ala Val Lys Leu Ala Glu Glu Val Pro Pro Pro Pro Glu Gly Leu Ile
420 425 430
Pro Ala Pro Pro Val Pro Glu Thr Thr Pro Thr Pro Thr Lys Thr
435 440 445
Gly Thr Trp Glu Ala Pro Val Asp Ser Ser Thr Ser Gly Leu Glu Gln
450 455 460
Asp Val Ala Gln Leu Asn Ile Ala Glu Gln Asn Trp Ser Pro Gly Gln
465 470 475 480
Pro Ser Phe Leu Gln Pro Arg Glu Leu Arg Gly Met Pro Asn His Ile
485 490 495
His Met Gly Ala Gly Pro Pro Pro Gln Phe Asn Arg Met Glu Glu Met
500 505 510
Gly Val Gln Gly Gly Arg Ala Lys Arg Tyr Ser Ser Gln Arg Gln Arg
515 520 525
Pro Val Pro Glu Pro Pro Ala Pro Pro Val His Ile Ser Ile Met Glu
530 535 540
Gly His Tyr Tyr Asp Pro Leu Gln Phe Gln Gly Pro Ile Tyr Thr His
545 550 555 560
Gly Asp Ser Pro Ala Pro Leu Pro Pro Gln Gly Met Leu Val Gln Pro
565 570 575
Gly Met Asn Leu Pro His Pro Gly Leu His Pro His Gln Thr Pro Ala
580 585 590
Pro Leu Pro Asn Pro Gly Leu Tyr Pro Pro Pro Val Ser Met Ser Pro
595 600 605
Gly Gln Pro Pro Pro Gln Gln Leu Leu Ala Pro Thr Tyr Phe Ser Ala
610 615 620
Pro Gly Val Met Asn Phe Gly Asn Pro Ser Tyr Pro Tyr Ala Pro Gly
625 630 635 640
Ala Leu Pro Pro Pro Pro Pro His Leu Tyr Pro Asn Thr Gln Ala
645 650 655
Pro Ser Gln Val Tyr Gly Gly Val Thr Tyr Tyr Asn Pro Ala Gln Gln
660 665 670
Gln Val Gln Pro Lys Pro Ser Pro Pro Arg Arg Thr Pro Gln Pro Val
675 680 685
Thr Ile Lys Pro Pro Pro Pro Glu Val Val Ser Arg Gly Ser Ser
690 695 700

```

<210> 44

<211> 560

<212> PRT

<213> Homo sapiens

<400> 44

```

Met Pro Gln Thr Arg Ser Gln Ala Gln Ala Thr Ile Ser Phe Pro Lys
1      5      10      15
Arg Lys Leu Ser Arg Ala Leu Asn Lys Ala Lys Asn Ser Ser Asp Ala
20      25      30
Lys Leu Glu Pro Thr Asn Val Gln Thr Val Thr Cys Ser Pro Arg Val
35      40      45
Lys Ala Leu Pro Leu Ser Pro Arg Lys Arg Leu Gly Asp Asp Asn Leu
50      55      60
Cys Asn Thr Pro His Leu Pro Pro Cys Ser Pro Lys Gln Gly Lys
65      70      75      80
Lys Glu Asn Gly Pro His Ser His Thr Leu Lys Gly Arg Arg Leu
85      90      95
Val Phe Asp Asn Gln Leu Thr Ile Lys Ser Pro Ser Lys Arg Glu Leu
100     105     110
Ala Lys Val His Gln Asn Lys Ile Leu Ser Ser Val Arg Lys Ser Gln
115     120     125
Glu Ile Thr Thr Asn Ser Glu Gln Arg Cys Pro Leu Lys Lys Glu Ser
130     135     140
Ala Cys Val Arg Leu Phe Lys Gln Glu Gly Thr Cys Tyr Gln Gln Ala
145     150     155     160
Lys Leu Val Leu Asn Thr Ala Val Pro Asp Arg Leu Pro Ala Arg Glu
165     170     175
Arg Glu Met Asp Val Ile Arg Asn Phe Leu Arg Glu His Ile Cys Gly
180     185     190
Lys Lys Ala Gly Ser Leu Tyr Leu Ser Gly Ala Pro Gly Thr Gly Lys
195     200     205
Thr Ala Cys Leu Ser Arg Ile Leu Gln Asp Leu Lys Lys Glu Leu Lys
210     215     220
Gly Phe Lys Thr Ile Met Leu Asn Cys Met Ser Leu Arg Thr Ala Gln
225     230     235     240
Ala Val Phe Pro Ala Ile Ala Gln Glu Ile Cys Gln Glu Glu Val Ser
245     250     255
Arg Pro Ala Gly Lys Asp Met Met Arg Lys Leu Glu Lys His Met Thr
260     265     270
Ala Glu Lys Gly Pro Met Ile Val Leu Val Leu Asp Glu Met Asp Gln
275     280     285
Leu Asp Ser Lys Gly Gln Asp Val Leu Tyr Thr Leu Phe Glu Trp Pro
290     295     300
Trp Leu Ser Asn Ser His Leu Val Leu Ile Gly Ile Ala Asn Thr Leu
305     310     315     320
Asp Leu Thr Asp Arg Ile Leu Pro Arg Leu Gln Ala Arg Glu Lys Cys
325     330     335
Lys Pro Gln Leu Leu Asn Phe Pro Pro Tyr Thr Arg Asn Gln Ile Val
340     345     350
Thr Ile Leu Gln Asp Arg Leu Asn Gln Val Ser Arg Asp Gln Val Leu
355     360     365
Asp Asn Ala Ala Val Gln Phe Cys Ala Arg Lys Val Ser Ala Val Ser
370     375     380
Gly Asp Val Arg Lys Ala Leu Asp Val Cys Arg Arg Ala Ile Glu Ile
385     390     395     400
Val Glu Ser Asp Val Lys Ser Gln Thr Ile Leu Lys Pro Leu Ser Glu
405     410     415
Cys Lys Ser Pro Ser Glu Pro Leu Ile Pro Lys Arg Val Gly Leu Ile
420     425     430

```


Siemens 0022 Seq Listing.txt

```

His Ile Ser Gln Val Ile Ser Glu Val Asp Gly Asn Arg Met Thr Leu
435 440 445
Ser Gln Glu Gly Ala Gln Asp Ser Phe Pro Leu Gln Gln Lys Ile Leu
450 455 460
Val Cys Ser Leu Met Leu Leu Ile Arg Gln Leu Lys Ile Lys Glu Val
465 470 475 480
Thr Leu Gly Lys Leu Tyr Glu Ala Tyr Ser Lys Val Cys Arg Lys Gln
485 490 495
Gln Val Ala Ala Val Asp Gln Ser Glu Cys Leu Ser Leu Ser Gly Leu
500 505 510
Leu Glu Ala Arg Gly Ile Leu Gly Leu Lys Arg Asn Lys Glu Thr Arg
515 520 525
Leu Thr Lys Val Phe Phe Lys Ile Glu Glu Lys Glu Ile Glu His Ala
530 535 540
Leu Lys Asp Lys Ala Leu Ile Gly Asn Ile Leu Ala Thr Gly Leu Pro
545 550 555 560

```

<210> 45

<211> 462

<212> PRT

<213> Homo sapiens

<400> 45

```

Met Ala Ser Asn Ser Ser Ser Cys Pro Thr Pro Gly Gly Gly His Leu
1 5 10 15
Asn Gly Tyr Pro Val Pro Pro Tyr Ala Phe Phe Phe Pro Pro Met Leu
20 25 30
Gly Gly Leu Ser Pro Pro Gly Ala Leu Thr Thr Leu Gln His Gln Leu
35 40 45
Pro Val Ser Gly Tyr Ser Thr Pro Ser Pro Ala Thr Ile Glu Thr Gln
50 55 60
Ser Ser Ser Ser Glu Glu Ile Val Pro Ser Pro Pro Ser Pro Pro Pro
65 70 75 80
Leu Pro Arg Ile Tyr Lys Pro Cys Phe Val Cys Gln Asp Lys Ser Ser
85 90 95
Gly Tyr His Tyr Gly Val Ser Ala Cys Glu Gly Cys Lys Gly Phe Phe
100 105 110
Arg Arg Ser Ile Gln Lys Asn Met Val Tyr Thr Cys His Arg Asp Lys
115 120 125
Asn Cys Ile Ile Asn Lys Val Thr Arg Asn Arg Cys Gln Tyr Cys Arg
130 135 140
Leu Gln Lys Cys Phe Glu Val Gly Met Ser Lys Glu Ser Val Arg Asn
145 150 155 160
Asp Arg Asn Lys Lys Lys Lys Glu Val Pro Lys Pro Glu Cys Ser Glu
165 170 175
Ser Tyr Thr Leu Thr Pro Glu Val Gly Glu Leu Ile Glu Lys Val Arg
180 185 190
Lys Ala His Gln Glu Thr Phe Pro Ala Leu Cys Gln Leu Gly Lys Tyr
195 200 205
Thr Thr Asn Asn Ser Ser Glu Gln Arg Val Ser Leu Asp Ile Asp Leu
210 215 220
Trp Asp Lys Phe Ser Glu Leu Ser Thr Lys Cys Ile Ile Lys Thr Val
225 230 235 240
Glu Phe Ala Lys Gln Leu Pro Gly Phe Thr Thr Leu Thr Ile Ala Asp
245 250 255
Gln Ile Thr Leu Leu Lys Ala Ala Cys Leu Asp Ile Leu Ile Leu Arg
260 265 270
Ile Cys Thr Arg Tyr Thr Pro Glu Gln Asp Thr Met Thr Phe Ser Asp
275 280 285
Gly Leu Thr Leu Asn Arg Thr Gln Met His Asn Ala Gly Phe Gly Pro
290 295 300

```

Siemens 0022 Seq Listing.txt

Leu Thr Asp Leu Val Phe Ala Phe Ala Asn Gln Leu Leu Pro Leu Glu
 305 310 315 320
 Met Asp Asp Ala Glu Thr Gly Leu Leu Ser Ala Ile Cys Leu Ile Cys
 325 330 335
 Gly Asp Arg Gln Asp Leu Glu Gln Pro Asp Arg Val Asp Met Leu Gln
 340 345 350
 Glu Pro Leu Leu Glu Ala Leu Lys Val Tyr Val Arg Lys Arg Arg Pro
 355 360 365
 Ser Arg Pro His Met Phe Pro Lys Met Leu Met Lys Ile Thr Asp Leu
 370 375 380
 Arg Ser Ile Ser Ala Lys Gly Ala Glu Arg Val Ile Thr Leu Lys Met
 385 390 400
 Glu Ile Pro Gly Ser Met Pro Pro Leu Ile Gln Glu Met Leu Glu Asn
 405 410 415
 Ser Glu Gly Leu Asp Thr Leu Ser Gly Gln Pro Gly Gly Gly Arg
 420 425 430
 Asp Gly Gly Gly Leu Ala Pro Pro Pro Gly Ser Cys Ser Pro Ser Leu
 435 440 445
 Ser Pro Ser Ser Asn Arg Ser Ser Pro Ala Thr His Ser Pro
 450 455 460

<210> 46

<211> 1531

<212> PRT

<213> Homo sapiens

<400> 46

Met Glu Val Ser Pro Leu Gln Pro Val Asn Glu Asn Met Gln Val Asn
 1 5 10 15
 Lys Ile Lys Lys Asn Glu Asp Ala Lys Lys Arg Leu Ser Val Glu Arg
 20 25 30
 Ile Tyr Gln Lys Lys Thr Gln Leu Glu His Ile Leu Leu Arg Pro Asp
 35 40 45
 Thr Tyr Ile Gly Ser Val Glu Leu Val Thr Gln Gln Met Trp Val Tyr
 50 55 60
 Asp Glu Asp Val Gly Ile Asn Tyr Arg Glu Val Thr Phe Val Pro Gly
 65 70 75 80
 Leu Tyr Lys Ile Phe Asp Glu Ile Leu Val Asn Ala Ala Asp Asn Lys
 85 90 95
 Gln Arg Asp Pro Lys Met Ser Cys Ile Arg Val Thr Ile Asp Pro Glu
 100 105 110
 Asn Asn Leu Ile Ser Ile Trp Asn Asn Gly Lys Gly Ile Pro Val Val
 115 120 125
 Glu His Lys Val Glu Lys Met Tyr Val Pro Ala Leu Ile Phe Gly Gln
 130 135 140
 Leu Leu Thr Ser Ser Asn Tyr Asp Asp Asp Glu Lys Lys Val Thr Gly
 145 150 155 160
 Gly Arg Asn Gly Tyr Gly Ala Lys Leu Cys Asn Ile Phe Ser Thr Lys
 165 170 175
 Phe Thr Val Glu Thr Ala Ser Arg Glu Tyr Lys Lys Met Phe Lys Gln
 180 185 190
 Thr Trp Met Asp Asn Met Gly Arg Ala Gly Glu Met Glu Leu Lys Pro
 195 200 205
 Phe Asn Gly Glu Asp Tyr Thr Cys Ile Thr Phe Gln Pro Asp Leu Ser
 210 215 220
 Lys Phe Lys Met Gln Ser Leu Asp Lys Asp Ile Val Ala Leu Met Val
 225 230 235 240
 Arg Arg Ala Tyr Asp Ile Ala Gly Ser Thr Lys Asp Val Lys Val Phe
 245 250 255
 Leu Asn Gly Asn Lys Leu Pro Val Lys Gly Phe Arg Ser Tyr Val Asp
 260 265 270

Siemens 0022 Seq Listing.txt

```

Met Tyr Leu Lys Asp Lys Leu Asp Glu Thr Gly Asn Ser Leu Lys Val
275 280
Ile His Glu Gln Val Asn His Arg Trp Glu Val Cys Leu Thr Met Ser
290 295 300
Glu Lys Gly Phe Gln Gln Ile Ser Phe Val Asn Ser Ile Ala Thr Ser
305 310 315
Lys Gly Gly Arg His Val Asp Tyr Val Ala Asp Gln Ile Val Thr Lys
325 330 335
Leu Val Asp Val Lys Lys Lys Asn Lys Gly Gly Val Ala Val Lys
340 345 350
Ala His Gln Val Lys Asn His Met Trp Ile Phe Val Asn Ala Leu Ile
355 360 365
Glu Asn Pro Thr Phe Asp Ser Gln Thr Lys Glu Asn Met Thr Leu Gln
370 375 380
Pro Lys Ser Phe Gly Ser Thr Cys Gln Leu Ser Glu Lys Phe Ile Lys
385 390 395 400
Ala Ala Ile Gly Cys Gly Ile Val Glu Ser Ile Leu Asn Trp Val Lys
405 410 415
Phe Lys Ala Gln Val Gln Leu Asn Lys Lys Cys Ser Ala Val Lys His
420 425 430
Asn Arg Ile Lys Gly Ile Pro Lys Leu Asp Asp Ala Asn Asp Ala Gly
435 440 445
Gly Arg Asn Ser Thr Glu Cys Thr Leu Ile Leu Thr Glu Gly Asp Ser
450 455 460
Ala Lys Thr Leu Ala Val Ser Gly Leu Gly Val Val Gly Arg Asp Lys
465 470 475 480
Tyr Gly Val Phe Pro Leu Arg Gly Lys Ile Leu Asn Val Arg Glu Ala
485 490 495
Ser His Lys Gln Ile Met Glu Asn Ala Glu Ile Asn Asn Ile Ile Lys
500 505 510
Ile Val Gly Leu Gln Tyr Lys Lys Asn Tyr Glu Asp Glu Asp Ser Leu
515 520 525
Lys Thr Leu Arg Tyr Gly Lys Ile Met Ile Met Thr Asp Gln Asp Gln
530 535 540
Asp Gly Ser His Ile Lys Gly Leu Leu Ile Asn Phe Ile His His Asn
545 550 555 560
Trp Pro Ser Leu Leu Arg His Arg Phe Leu Glu Glu Phe Ile Thr Pro
565 570 575
Ile Val Lys Val Ser Lys Asn Lys Gln Glu Met Ala Phe Tyr Ser Leu
580 585 590
Pro Glu Phe Glu Glu Trp Lys Ser Ser Thr Pro Asn His Lys Lys Trp
595 600 605
Lys Val Lys Tyr Tyr Lys Gly Leu Gly Thr Ser Thr Ser Lys Glu Ala
610 615 620
Lys Glu Tyr Phe Ala Asp Met Lys Arg His Arg Ile Gln Phe Lys Tyr
625 630 635 640
Ser Gly Pro Glu Asp Asp Ala Ala Ile Ser Leu Ala Phe Ser Lys Lys
645 650 655
Gln Ile Asp Asp Arg Lys Glu Trp Leu Thr Asn Phe Met Glu Asp Arg
660 665 670
Arg Gln Arg Lys Leu Leu Gly Leu Pro Glu Asp Tyr Leu Tyr Gly Gln
675 680 685
Thr Thr Thr Tyr Leu Thr Tyr Asn Asp Phe Ile Asn Lys Glu Leu Ile
690 695 700
Leu Phe Ser Asn Ser Asp Asn Glu Arg Ser Ile Pro Ser Met Val Asp
705 710 715 720
Gly Leu Lys Pro Gly Gln Arg Lys Val Leu Phe Thr Cys Phe Lys Arg
725 730 735
Asn Asp Lys Arg Glu Val Lys Val Ala Gln Leu Ala Gly Ser Val Ala
740 745 750
Glu Met Ser Ser Tyr His His Gly Glu Met Ser Leu Met Met Thr Ile
755 760 765
Ile Asn Leu Ala Gln Asn Phe Val Gly Ser Asn Asn Leu Asn Leu Leu

```

Siemens 0022 Seq Listing.txt

770	Gln	Pro	Ile	Gly	Gln	Phe	Gly	Thr	Arg	Leu	His	Gly	Gly	Lys	Asp	Ser
785	Ala	Ser	Pro	Arg	Tyr	Ile	Phe	Thr	Met	Leu	Ser	Ser	Leu	Ala	Arg	Leu
	Leu	Phe	Pro	Pro	Lys	Asp	Asp	His	Thr	Leu	Lys	Phe	Leu	Tyr	Asp	Asp
	Asn	Gln	Arg	Val	Glu	Pro	Glu	Trp	Tyr	Ile	Pro	Ile	Ile	Pro	Met	Val
	Leu	Ile	Asn	Gly	Ala	Glu	Gly	Ile	Gly	Thr	Gly	Trp	Ser	Cys	Lys	Ile
	Pro	Asn	Phe	Asp	Val	Arg	Glu	Ile	Val	Asn	Asn	Ile	Arg	Arg	Leu	Met
	Asp	Gly	Glu	Glu	Pro	Leu	Pro	Met	Leu	Pro	Ser	Tyr	Lys	Asn	Phe	Lys
	Gly	Thr	Ile	Glu	Glu	Leu	Ala	Pro	Asn	Gln	Tyr	Val	Ile	Ser	Gly	Glu
	Val	Ala	Ile	Leu	Asn	Ser	Thr	Thr	Ile	Glu	Ile	Ser	Glu	Leu	Pro	Val
	Arg	Thr	Trp	Thr	Gln	Thr	Tyr	Lys	Glu	Gln	Val	Leu	Glu	Pro	Met	Leu
	Asn	Gly	Thr	Glu	Lys	Thr	Pro	Pro	Leu	Ile	Thr	Asp	Tyr	Arg	Glu	Tyr
	His	Thr	Asp	Thr	Thr	Val	Lys	Phe	Val	Val	Lys	Met	Thr	Glu	Glu	Lys
	Leu	Ala	Glu	Ala	Glu	Arg	Val	Gly	Leu	His	Lys	Val	Phe	Lys	Leu	Gln
	Thr	Ser	Leu	Thr	Cys	Asn	Ser	Met	Val	Leu	Phe	Asp	His	Val	Gly	Cys
	Leu	Lys	Lys	Tyr	Asp	Thr	Val	Leu	Asp	Ile	Leu	Arg	Asp	Phe	Phe	
	Glu	Leu	Arg	Leu	Lys	Tyr	Tyr	Gly	Leu	Arg	Lys	Glu	Trp	Leu	Leu	
	Gly	Met	Leu	Gly	Ala	Glu	Ser	Ala	Lys	Leu	Asn	Asn	Gln	Ala	Arg	
	Phe	Ile	Leu	Glu	Lys	Ile	Asp	Gly	Lys	Ile	Ile	Ile	Glu	Asn	Lys	
	Pro	Lys	Lys	Glu	Leu	Ile	Lys	Val	Leu	Ile	Gln	Arg	Gly	Tyr	Asp	
	Ser	Asp	Pro	Val	Lys	Ala	Trp	Lys	Glu	Ala	Gln	Gln	Lys	Val	Pro	
	Asp	Glu	Glu	Glu	Asn	Glu	Glu	Ser	Asp	Asn	Glu	Lys	Glu	Thr	Glu	
	Lys	Ser	Asp	Ser	Val	Thr	Asp	Ser	Gly	Pro	Thr	Phe	Asn	Tyr	Leu	
	Leu	Asp	Met	Pro	Leu	Trp	Tyr	Leu	Thr	Lys	Glu	Lys	Lys	Asp	Glu	
	Leu	Cys	Arg	Leu	Arg	Asn	Glu	Lys	Glu	Gln	Glu	Leu	Asp	Thr	Leu	
	Lys	Arg	Lys	Ser	Pro	Ser	Asp	Leu	Trp	Lys	Glu	Asp	Leu	Ala	Thr	
	Phe	Ile	Glu	Glu	Leu	Glu	Ala	Val	Glu	Ala	Lys	Glu	Lys	Gln	Asp	
	Glu	Gln	Val	Gly	Leu	Pro	Gly	Lys	Gly	Gly	Lys	Ala	Lys	Gly	Lys	
	Lys	Thr	Gln	Met	Ala	Glu	Val	Leu	Pro	Ser	Pro	Arg	Gly	Gln	Arg	
	Val	Ile	Pro	Arg	Ile	Thr	Ile	Glu	Met	Lys	Ala	Glu	Ala	Glu	Lys	
	Lys	Asn	Lys	Lys	Lys	Ile	Lys	Asn	Glu	Asn	Thr	Glu	Gly	Ser	Pro	
	Gln	Glu	Asp	Gly	Val	Glu	Glu	Gly	Leu	Lys	Gln	Arg	Leu	Glu		

Siemens 0022 Seq Listing.txt

Lys	Lys	Gln	Lys	Arg	Glu	Pro	Gly	Thr	Lys	Thr	Lys	Lys	Gln	Thr
1265	1270													
Thr	Leu	Ala	Phe	Lys	Pro	Ile	Lys	Lys	Gly	Lys	Lys	Arg	Asn	Pro
1280	1285													
Trp	Ser	Asp	Ser	Glu	Ser	Asp	Arg	Ser	Ser	Asp	Glu	Ser	Asn	Phe
1295	1300													
Asp	Val	Pro	Pro	Arg	Glu	Thr	Glu	Pro	Arg	Arg	Ala	Ala	Thr	Lys
1310	1315													
Thr	Lys	Phe	Thr	Met	Asp	Leu	Asp	Ser	Asp	Glu	Asp	Phe	Ser	Asp
1325	1330													
Phe	Asp	Glu	Lys	Thr	Asp	Asp	Glu	Asp	Phe	Val	Pro	Ser	Asp	Ala
1340	1345													
Ser	Pro	Pro	Lys	Thr	Lys	Thr	Ser	Pro	Lys	Leu	Ser	Asn	Lys	Glu
1355	1360													
Leu	Lys	Pro	Gln	Lys	Ser	Val	Val	Ser	Asp	Leu	Glu	Ala	Asp	Asp
1370	1375													
Val	Lys	Gly	Ser	Val	Pro	Leu	Ser	Ser	Ser	Pro	Pro	Ala	Thr	His
1385	1390													
Phe	Pro	Asp	Glu	Thr	Glu	Ile	Thr	Asn	Pro	Val	Pro	Lys	Lys	Asn
1400	1405													
Val	Thr	Val	Lys	Lys	Thr	Ala	Ala	Lys	Ser	Gln	Ser	Ser	Thr	Ser
1415	1420													
Thr	Thr	Gly	Ala	Lys	Lys	Arg	Ala	Ala	Pro	Lys	Gly	Thr	Lys	Arg
1430	1435													
Asp	Pro	Ala	Leu	Asn	Ser	Gly	Val	Ser	Gln	Lys	Pro	Asp	Pro	Ala
1445	1450													
Lys	Thr	Lys	Asn	Arg	Arg	Lys	Arg	Lys	Pro	Ser	Thr	Ser	Asp	Asp
1460	1465													
Ser	Asp	Ser	Asn	Phe	Glu	Lys	Ile	Val	Ser	Lys	Ala	Val	Thr	Ser
1475	1480													
Lys	Lys	Ser	Lys	Gly	Glu	Ser	Asp	Asp	Phe	His	Met	Asp	Phe	Asp
1490	1495													
Ser	Ala	Val	Ala	Pro	Arg	Ala	Lys	Ser	Val	Arg	Ala	Lys	Lys	Pro
1505	1510													
Ile	Lys	Tyr	Leu	Glu	Glu	Ser	Asp	Glu	Asp	Asp	Leu	Phe		
1520	1525													

<210> 47

<211> 258

<212> PRT

<213> Homo sapiens

<400> 47

Met	Leu	Pro	Leu	Cys	Leu	Val	Ala	Ala	Leu	Leu	Leu	Ala	Ala	Gly	Pro
1				5					10					15	
Gly	Pro	Ser	Leu	Gly	Asp	Glu	Ala	Ile	His	Cys	Pro	Pro	Cys	Ser	Glu
			20					25					30		
Glu	Lys	Leu	Ala	Arg	Cys	Arg	Pro	Val	Gly	Cys	Glu	Glu	Leu	Val	
			35				40				45				
Arg	Glu	Pro	Gly	Cys	Gly	Cys	Cys	Ala	Thr	Cys	Ala	Leu	Gly	Leu	Gly
			50			55				60					
Met	Pro	Cys	Gly	Val	Tyr	Thr	Pro	Arg	Cys	Gly	Ser	Gly	Leu	Arg	Cys
65					70				75					80	
Tyr	Pro	Pro	Arg	Gly	Val	Glu	Lys	Pro	Leu	His	Thr	Leu	Met	His	Gly
			85					90						95	
Gln	Gly	Val	Cys	Met	Glu	Leu	Ala	Glu	Ile	Glu	Ala	Ile	Gln	Glu	Ser
			100					105					110		
Leu	Gln	Pro	Ser	Asp	Lys	Asp	Glu	Gly	Asp	His	Pro	Asn	Asn	Ser	Phe
		115				120						125			
Ser	Pro	Cys	Ser	Ala	His	Asp	Arg	Arg	Cys	Leu	Gln	Lys	His	Phe	Ala
	130					135					140				

Siemens 0022 Seq Listing.txt

Lys Ile Arg Asp Arg Ser Thr Ser Gly Gly Lys Met Lys Val Asn Gly
 145 150 155 160
 Ala Pro Arg Glu Asp Ala Arg Pro Val Pro Gln Gly Ser Cys Gln Ser
 165 170 175
 Glu Leu His Arg Ala Leu Glu Arg Leu Ala Ala Ser Gln Ser Arg Thr
 180 185 190
 His Glu Asp Leu Tyr Ile Ile Pro Ile Pro Asn Cys Asp Arg Asn Gly
 195 200 205
 Asn Phe His Pro Lys Gln Cys His Pro Ala Leu Asp Gly Gln Arg Gly
 210 215 220
 Lys Cys Trp Cys Val Asp Arg Lys Thr Gly Val Lys Leu Pro Gly Gly
 225 230 235 240
 Leu Glu Pro Lys Gly Glu Leu Asp Cys His Gln Leu Ala Asp Ser Phe
 245 250 255
 Arg Glu

<210> 48

<211> 378

<212> PRT

<213> Homo sapiens

<400> 48

Met Asp Leu Gly Lys Pro Met Lys Ser Val Leu Val Val Ala Leu Leu
 1 5 10 15
 Val Ile Phe Gln Val Cys Leu Cys Gln Asp Glu Val Thr Asp Asp Tyr
 20 25 30
 Ile Gly Asp Asn Thr Thr Val Asp Tyr Thr Leu Phe Glu Ser Leu Cys
 35 40 45
 Ser Lys Lys Asp Val Arg Asn Phe Lys Ala Trp Phe Leu Pro Ile Met
 50 55 60
 Tyr Ser Ile Ile Cys Phe Val Gly Leu Leu Gly Asn Gly Leu Val Val
 65 70 75 80
 Leu Thr Tyr Ile Tyr Phe Lys Arg Leu Lys Thr Met Thr Asp Thr Tyr
 85 90 95
 Leu Leu Asn Leu Ala Val Ala Asp Ile Leu Phe Leu Leu Thr Leu Pro
 100 105 110
 Phe Trp Ala Tyr Ser Ala Ala Lys Ser Trp Val Phe Gly Val His Phe
 115 120 125
 Cys Lys Leu Ile Phe Ala Ile Tyr Lys Met Ser Phe Phe Ser Gly Met
 130 135 140
 Leu Leu Leu Leu Cys Ile Ser Ile Asp Arg Tyr Val Ala Ile Val Gln
 145 150 155 160
 Ala Val Ser Ala His Arg His Arg Ala Arg Val Leu Leu Ile Ser Lys
 165 170 175
 Leu Ser Cys Val Gly Ile Trp Ile Leu Ala Thr Val Leu Ser Ile Pro
 180 185 190
 Glu Leu Leu Tyr Ser Asp Leu Gln Arg Ser Ser Ser Glu Gln Ala Met
 195 200 205
 Arg Cys Ser Leu Ile Thr Glu His Val Glu Ala Phe Ile Thr Ile Gln
 210 215 220
 Val Ala Gln Met Val Ile Gly Phe Leu Val Pro Leu Leu Ala Met Ser
 225 230 235 240
 Phe Cys Tyr Leu Val Ile Ile Arg Thr Leu Leu Gln Ala Arg Asn Phe
 245 250 255
 Glu Arg Asn Lys Ala Ile Lys Val Ile Ile Ala Val Val Val Val Phe
 260 265 270
 Ile Val Phe Gln Leu Pro Tyr Asn Gly Val Val Leu Ala Gln Thr Val
 275 280 285
 Ala Asn Phe Asn Ile Thr Ser Ser Thr Cys Glu Leu Ser Lys Gln Leu
 290 295 300

Siemens 0022 Seq Listing.txt

```

Asn Ile Ala Tyr Asp Val Thr Tyr Ser Leu Ala Cys Val Arg Cys Cys
305 310 315 320
Val Asn Pro Phe Leu Tyr Ala Phe Ile Gly Val Lys Phe Arg Asn Asp
325 330 335
Leu Phe Lys Leu Phe Lys Asp Leu Gly Cys Leu Ser Gln Glu Gln Leu
340 345 350
Arg Gln Trp Ser Ser Cys Arg His Ile Arg Arg Ser Ser Met Ser Val
355 360 365
Glu Ala Glu Thr Thr Thr Thr Phe Ser Pro
370 375

```

<210> 49

<211> 411

<212> PRT

<213> Homo sapiens

<400> 49

```

Met Ser Lys Arg Pro Ser Tyr Ala Pro Pro Pro Thr Pro Ala Pro Ala
1 5 10 15
Thr Gln Met Pro Ser Thr Pro Gly Phe Val Gly Tyr Asn Pro Tyr Ser
20 25 30
His Leu Ala Tyr Asn Asn Tyr Arg Leu Gly Gly Asn Pro Ser Thr Asn
35 40 45
Ser Arg Val Thr Ala Ser Ser Gly Ile Thr Ile Pro Lys Pro Pro Lys
50 55 60
Pro Pro Asp Lys Pro Leu Met Pro Tyr Met Arg Tyr Ser Arg Lys Val
65 70 75 80
Trp Asp Gln Val Lys Ala Ser Asn Pro Asp Leu Lys Leu Trp Glu Ile
85 90 95
Gly Lys Ile Ile Gly Gly Met Trp Arg Asp Leu Thr Asp Glu Glu Lys
100 105 110
Gln Glu Tyr Leu Asn Glu Tyr Glu Ala Glu Lys Ile Glu Tyr Asn Glu
115 120 125
Ser Met Lys Ala Tyr His Asn Ser Pro Ala Tyr Leu Ala Tyr Ile Asn
130 135 140
Ala Lys Ser Arg Ala Glu Ala Ala Leu Glu Glu Ser Arg Gln Arg
145 150 155 160
Gln Ser Arg Met Glu Lys Gly Glu Pro Tyr Met Ser Ile Gln Pro Ala
165 170 175
Glu Asp Pro Asp Asp Tyr Asp Asp Gly Phe Ser Met Lys His Thr Ala
180 185 190
Thr Ala Arg Phe Gln Arg Asn His Arg Leu Ile Ser Glu Ile Leu Ser
195 200 205
Glu Ser Val Val Pro Asp Val Arg Ser Val Val Thr Thr Ala Arg Met
210 215 220
Gln Val Leu Lys Arg Gln Val Gln Ser Leu Met Val His Gln Arg Lys
225 230 235 240
Leu Glu Ala Glu Leu Gln Ile Glu Glu Arg His Gln Glu Lys Lys
245 250 255
Arg Lys Phe Leu Glu Ser Thr Asp Ser Phe Asn Asn Glu Leu Lys Arg
260 265 270
Leu Cys Gly Leu Lys Val Glu Val Asp Met Glu Lys Ile Ala Ala Glu
275 280 285
Ile Ala Gln Ala Glu Glu Gln Ala Arg Lys Arg Gln Glu Glu Arg Glu
290 295 300
Lys Glu Ala Ala Glu Gln Ala Glu Arg Ser Gln Ser Ser Ile Val Pro
305 310 315 320
Glu Glu Glu Gln Ala Ala Asn Lys Gly Glu Glu Lys Lys Asp Asp Glu
325 330 335
Asn Ile Pro Met Glu Thr Glu Glu Thr His Leu Glu Glu Thr Thr Glu
340 345 350

```

Siemens 0022 Seq Listing.txt

Ser Gln Gln Asn Gly Glu Glu Gly Thr Ser Thr Pro Glu Asp Lys Glu
 355 360 365
 Ser Gly Gln Glu Gly Val Asp Ser Met Ala Glu Glu Gly Thr Ser Asp
 370 375 380
 Ser Asn Thr Gly Ser Glu Ser Asn Ser Ala Thr Val Glu Glu Pro Pro
 385 390 395 400
 Thr Asp Pro Ile Pro Glu Asp Glu Lys Lys Glu
 405 410

<210> 50

<211> 593

<212> PRT

<213> Homo sapiens

<400> 50

Met Ser Val Arg Tyr Ser Ser Ser Lys His Tyr Ser Ser Ser Arg Ser
 1 5 10 15
 Gly Gly Gly Gly Gly Gly Gly Cys Gly Gly Gly Gly Gly Val Ser
 20 25 30
 Ser Leu Arg Ile Ser Ser Ser Lys Gly Ser Leu Gly Gly Gly Phe Ser
 35 40 45
 Ser Gly Gly Phe Ser Gly Gly Ser Phe Ser Arg Gly Ser Ser Gly Gly
 50 55 60
 Gly Cys Phe Gly Gly Ser Ser Gly Gly Tyr Gly Gly Leu Gly Gly Phe
 65 70 75 80
 Gly Gly Gly Ser Phe His Gly Ser Tyr Gly Ser Ser Ser Phe Gly Gly
 85 90 95
 Ser Tyr Gly Gly Ser Phe Gly Gly Gly Asn Phe Gly Gly Gly Ser Phe
 100 105 110
 Gly Gly Gly Ser Phe Gly Gly Gly Gly Phe Gly Gly Gly Phe Gly
 115 120 125
 Gly Gly Phe Gly Gly Gly Phe Gly Gly Asp Gly Gly Leu Leu Ser Gly
 130 135 140
 Asn Glu Lys Val Thr Met Gln Asn Leu Asn Asp Arg Leu Ala Ser Tyr
 145 150 155 160
 Leu Asp Lys Val Arg Ala Leu Glu Glu Ser Asn Tyr Glu Leu Glu Gly
 165 170 175
 Lys Ile Lys Glu Trp Tyr Glu Lys His Gly Asn Ser His Gln Gly Glu
 180 185 190
 Pro Arg Asp Tyr Ser Lys Tyr Tyr Lys Thr Ile Asp Asp Leu Lys Asn
 195 200 205
 Gln Ile Leu Asn Leu Thr Thr Asp Asn Ala Asn Ile Leu Leu Gln Ile
 210 215 220
 Asp Asn Ala Arg Leu Ala Ala Asp Asp Phe Arg Leu Lys Tyr Glu Asn
 225 230 235 240
 Glu Val Ala Leu Arg Gln Ser Val Glu Ala Asp Ile Asn Gly Leu Arg
 245 250 255
 Arg Val Leu Asp Glu Leu Thr Leu Thr Lys Ala Asp Leu Glu Met Gln
 260 265 270
 Ile Glu Ser Leu Thr Glu Glu Leu Ala Tyr Leu Lys Lys Asn His Glu
 275 280 285
 Glu Glu Met Lys Asp Leu Arg Asn Val Ser Thr Gly Asp Val Asn Val
 290 295 300
 Glu Met Asn Ala Ala Pro Gly Val Asp Leu Thr Gln Leu Leu Asn Asn
 305 310 315 320
 Met Arg Ser Gln Tyr Glu Gln Leu Ala Glu Gln Asn Arg Lys Asp Ala
 325 330 335
 Glu Ala Trp Phe Asn Glu Lys Ser Lys Glu Leu Thr Thr Glu Ile Asp
 340 345 350

Siemens 0022 Seq Listing.txt

```

Asn Asn Ile Glu Gln Ile Ser Ser Tyr Lys Ser Glu Ile Thr Glu Leu
355 360 365
Arg Arg Asn Val Gln Ala Leu Glu Ile Glu Leu Gln Ser Gln Leu Ala
370 375 380
Leu Lys Gln Ser Leu Glu Ala Ser Leu Ala Glu Thr Glu Gly Arg Tyr
385 390 395 400
Cys Val Gln Leu Ser Gln Ile His Ala Gln Ile Ser Ala Leu Glu Glu
405 410 415
Gln Leu Gln Gln Ile Arg Ala Glu Thr Glu Cys Gln Asn Thr Glu Tyr
420 425 430
Gln Gln Leu Leu Asp Ile Lys Ile Arg Leu Glu Asn Glu Ile Gln Thr
435 440 445
Tyr Arg Ser Leu Leu Glu Gly Glu Gly Ser Ser Gly Gly Gly Arg
450 455 460
Gly Gly Gly Ser Phe Gly Gly Tyr Gly Gly Gly Ser Ser Gly Gly
465 470 475 480
Gly ser ser Gly Gly Gly Tyr Gly Gly Gly His Gly Gly Ser Ser Gly
485 490 495
Gly Gly Tyr Gly Gly Gly ser ser Gly Gly ser ser Gly Gly Gly
500 505 510
Tyr Gly Gly Gly Ser Ser Ser Gly His Gly Gly Gly Ser Ser Ser
515 520 525
Gly Gly His Gly Gly Ser Ser Ser Gly Gly Tyr Gly Gly Gly Ser Ser
530 535 540
Gly Gly Gly Gly Gly Tyr Gly Gly Gly Ser Gly Gly Gly Ser
545 550 555 560
Ser Ser Gly Gly Gly Tyr Gly Gly Gly Ser Ser Gly Gly His Lys
565 570 575
ser ser ser Ser Gly ser val Gly Glu Ser Ser Ser Lys Gly Pro Arg
580 585 590
Tyr

```

<210> 51

<211> 494

<212> PRT

<213> Homo sapiens

<400> 51

```

Met Asp Leu Ser Asn Asn Thr Met Ser Leu Ser Val Arg Thr Pro Gly
1 5 10 15
Leu Ser Arg Arg Leu Ser Ser Gln Ser Val Ile Gly Arg Pro Arg Gly
20 25 30
Met Ser Ala Ser Ser Val Gly Ser Gly Tyr Gly Gly Ser Ala Phe Gly
35 40 45
Phe Gly Ala Ser Cys Gly Gly Gly Phe Ser Ala Ala Ser Met Phe Gly
50 55 60
Ser Ser Ser Gly Phe Gly Gly Gly Ser Gly Ser Ser Met Ala Gly Gly
65 70 75 80
Leu Gly Ala Gly Tyr Gly Arg Ala Leu Gly Gly Gly Ser Phe Gly Gly
85 90 95
Leu Gly Met Gly Phe Gly Gly Ser Pro Gly Gly Gly Ser Leu Gly Ile
100 105 110
Leu Ser Gly Asn Asp Gly Gly Leu Leu Ser Gly Ser Glu Lys Glu Thr
115 120 125
Met Gln Asn Leu Asn Asp Arg Leu Ala Ser Tyr Leu Asp Lys Val Arg
130 135 140
Ala Leu Glu Glu Ala Asn Thr Glu Leu Glu Asn Lys Ile Arg Glu Trp
145 150 155 160

```

Siemens 0022 Seq Listing.txt

```

Tyr Glu Thr Arg Gly Thr Gly Thr Ala Asp Ala Ser Gln Ser Asp Tyr
165 170 175
Ser Lys Tyr Tyr Pro Leu Ile Glu Asp Leu Arg Asn Lys Ile Ile Ser
180 185 190
Ala Ser Ile Gly Asn Ala Gln Leu Leu Gln Ile Asp Asn Ala Arg
195 200 205
Leu Ala Ala Glu Asp Phe Arg Met Lys Tyr Glu Asn Glu Leu Ala Leu
210 215 220
Arg Gln Gly Val Glu Ala Asp Ile Asn Gly Leu Arg Arg Val Leu Asp
225 230 235 240
Glu Leu Thr Leu Thr Arg Thr Asp Leu Glu Met Gln Ile Glu Ser Leu
245 250 255
Asn Glu Glu Leu Ala Tyr Met Lys Lys Asn His Glu Asp Glu Leu Gln
260 265 270
Ser Phe Arg Val Gly Gly Pro Gly Glu Val Ser Val Glu Met Asp Ala
275 280 285
Ala Pro Gly Val Asp Leu Thr Arg Leu Leu Asn Asp Met Arg Ala Gln
290 295 300
Tyr Glu Thr Ile Ala Glu Gln Asn Arg Lys Asp Ala Glu Ala Trp Phe
305 310 315 320
Ile Glu Lys Ser Gly Glu Leu Arg Lys Glu Ile Ser Thr Asn Thr Glu
325 330 335
Gln Leu Gln Ser Ser Lys Ser Glu Val Thr Asp Leu Arg Arg Ala Phe
340 345 350
Gln Asn Leu Glu Ile Glu Leu Gln Ser Gln Leu Ala Met Lys Lys Ser
355 360 365
Leu Glu Asp Ser Leu Ala Glu Ala Glu Gly Asp Tyr Cys Ala Gln Leu
370 375 380
Ser Gln Val Gln Gln Leu Ile Ser Asn Leu Glu Ala Gln Leu Leu Gln
385 390 395 400
Val Arg Ala Asp Ala Glu Arg Gln Asn Val Asp His Gln Arg Leu Leu
405 410 415
Asn Val Lys Ala Arg Leu Glu Leu Glu Ile Glu Thr Tyr Arg Arg Leu
420 425 430
Leu Asp Gly Glu Ala Gln Gly Asp Gly Leu Glu Glu Ser Leu Phe Val
435 440 445
Thr Asp Ser Lys Ser Gln Ala Gln Ser Thr Asp Ser Ser Lys Asp Pro
450 455 460
Thr Lys Thr Arg Lys Ile Lys Thr Val Val Gln Glu Met Val Asn Gly
465 470 475 480
Glu Val Val Ser Ser Gln Val Gln Glu Ile Glu Glu Leu Met
485 490

```

<210> 52

<211> 361

<212> PRT

<213> Homo sapiens

<400> 52

```

Cys Asn Trp Phe Cys Glu Gly Ser Phe Asn Gly Ser Glu Lys Glu Thr
1 5 10 15
Met Gln Phe Leu Asn Asp Arg Leu Ala Ser Tyr Leu Glu Lys Val Arg
20 25 30
His Val Glu Arg Asp Asn Ala Glu Leu Glu Asn Leu Ile Arg Glu Arg
35 40 45
Ser Gln Gln Gln Glu Pro Leu Leu Cys Pro Ser Tyr Gln Ser Tyr Phe
50 55 60
Lys Thr Ile Glu Glu Leu Gln Gln Lys Ile Leu Cys Ser Lys Ser Glu
65 70 75 80

```

Siemens 0022 Seq Listing.txt

Asn Ala Arg Leu Val Val Gln Ile Asp Asn Ala Lys Leu Ala Ala Asp
 85 90 95
 Asp Phe Arg Thr Lys Tyr Gln Thr Glu Gln Ser Leu Arg Gln Leu Val
 100 105 110
 Glu Ser Asp Ile Asn Ser Leu Arg Arg Ile Leu Asp Glu Leu Thr Leu
 115 120 125
 Cys Arg Ser Asp Leu Glu Ala Gln Met Glu Ser Leu Lys Glu Glu Leu
 130 135 140
 Leu Ser Leu Lys Gln Asn His Glu Gln Glu Val Asn Thr Leu Arg Cys
 145 150 155 160
 Gln Leu Gly Asp Arg Leu Asn Val Glu Val Asp Ala Ala Pro Ala Val
 165 170 175
 Asp Leu Asn Gln Val Leu Asn Glu Thr Arg Asn Gln Tyr Glu Ala Leu
 180 185 190
 Val Glu Thr Asn Arg Arg Glu Val Glu Gln Trp Phe Ala Thr Gln Thr
 195 200 205
 Glu Glu Leu Asn Lys Gln Val Val Ser Ser Ser Glu Gln Leu Gln Ser
 210 215 220
 Tyr Gln Ala Glu Ile Ile Glu Leu Arg Arg Thr Val Asn Ala Leu Glu
 225 230 235 240
 Ile Glu Leu Gln Ala Gln His Asn Leu Arg Tyr Ser Leu Glu Asn Thr
 245 250 255
 Leu Thr Glu Ser Glu Ala Arg Tyr Ser Ser Gln Leu Ser Gln Val Gln
 260 265 270
 Ser Leu Ile Thr Asn Val Glu Ser Gln Leu Ala Glu Ile Arg Ser Asp
 275 280 285
 Leu Glu Arg Gln Asn Gln Glu Tyr Gln Val Leu Leu Asp Val Arg Ala
 290 295 300
 Arg Leu Glu Cys Glu Ile Asn Thr Tyr Arg Ser Leu Leu Glu Ser Glu
 305 310 315 320
 Asp Cys Lys Leu Pro Ser Asn Pro Cys Ala Thr Thr Asn Ala Cys Glu
 325 330 335
 Lys Pro Ile Gly Ser Cys Val Thr Asn Pro Cys Gly Pro Arg Ser Arg
 340 345 350
 Cys Gly Pro Cys Asn Thr Phe Gly Tyr
 355 360

<210> 53

<211> 3282

<212> DNA

<213> Homo sapiens

<400> 53

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Siemens 0022 Seq Listing.txt

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<211> 2227

<212> DNA

<213> Homo sapiens

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Siemens 0022 Seq Listing.txt

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<213> Homo sapiens

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Siemens 0022 Seq Listing.txt

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<213> Homo sapiens

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Siemens 0022 Seq Listing.txt

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Siemens 0022 Seq Listing.txt

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<211> 2098

<212> DNA

<213> Homo sapiens

<400> 57

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Siemens 0022 Seq Listing.txt

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Siemens 0022 Seq Listing.txt

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<212> DNA

<213> Homo sapiens

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Siemens 0022 Seq Listing.txt

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Siemens 0022 Seq Listing.txt

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Siemens 0022 Seq Listing.txt

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Siemens 0022 Seq Listing.txt

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Siemens 0022 Seq Listing.txt

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<211> 2341

<212> DNA

<213> Homo sapiens

<400> 66

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<211> 2109

<212> DNA

<213> Homo sapiens

Siemens 0022 Seq Listing.txt

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<211> 2423

<212> DNA

<213> Homo sapiens

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Siemens 0022 Seq Listing.txt

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<211> 1841

<212> DNA

<213> Homo sapiens

<400> 69

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Siemens 0022 Seq Listing.txt

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<211> 795

<212> DNA

<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

Siemens 0022 Seq Listing.txt

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<212> DNA

<213> Homo sapiens

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Siemens 0022 Seq Listing.txt

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<213> Homo sapiens

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Siemens 0022 Seq Listing.txt

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<211> 4005

<212> DNA

<213> Homo sapiens

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Siemens 0022 Seq Listing.txt

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<212> PRT

<213> Homo sapiens

<400> 76

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Siemens 0022 Seq Listing.txt

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Ser	Arg	Lys	Asp	Lys	Glu	Arg	Leu	Lys	Gln	Lys	His	Lys	Lys	Arg	Pro
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Val	Ser	Ser	Phe	Thr	Ser	Ala	Ser	Ser	Ser	Ser	Ser	Ser	Ser	Ser	Ser
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Ser	Ser	Leu	Leu	Gly	Pro	Pro	Gly	Thr	Ser	Ala	Leu	Pro	Arg	Leu	Ser
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Arg	Ser	Pro	Phe	Thr	Ser	Thr	Leu	Pro	Ser	Ser	Ser	Ala	Ser	Ile	Ser
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Siemens 0022 Seq Listing.txt

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645      650      655
Arg Cys Arg Gly Thr Ser Pro Gln Glu Ser Leu Ser Ser Met Ser Pro
660      665      670
Ile Ser Ser Leu Pro Ala Leu Phe Asp Gln Thr Ala Ser Ala Pro Cys
675      680      685
Gly Gly Gly Gln Leu Asp Pro Ala Ala Pro Gly Thr Thr Asn Met Glu
690      695      700
Gln Leu Leu Glu Lys Gln Gly Asp Gly Glu Ala Gly Val Asn Ile Val
705      710      715
Glu Met Leu Lys Ala Leu His Ala Leu Gln Lys Glu Asn Gln Arg Leu
725      730      735
Gln Glu Gln Ile Leu Ser Leu Thr Ala Lys Lys Glu Arg Leu Gln Ile
740      745      750
Leu Asn Val Gln Leu Ser Val Pro Phe Pro Ala Leu Pro Ala Ala Leu
755      760      765
Pro Ala Ala Asn Gly Pro Val Pro Gly Pro Tyr Gly Leu Pro Pro Gln
770      775      780
Ala Gly Ser Ser Asp Ser Leu Ser Thr Ser Lys Ser Pro Pro Gly Lys
785      790      795
Ser Ser Leu Gly Leu Asp Asn Ser Leu Ser Thr Ser Ser Glu Asp Pro
805      810      815
His Ser Gly Cys Pro Ser Arg Ser Ser Ser Ser Leu Ser Phe His Ser
820      825      830
Thr Pro Pro Pro Leu Pro Leu Leu Gln Gln Ser Pro Ala Thr Leu Pro
835      840      845
Leu Ala Leu Pro Gly Ala Pro Ala Pro Leu Pro Pro Gln Pro Gln Asn
850      855      860
Gly Leu Gly Arg Ala Pro Gly Ala Ala Gly Leu Gly Ala Met Pro Met
865      870      875
Ala Glu Gly Leu Leu Gly Gly Leu Ala Gly Ser Gly Gly Leu Pro Leu
885      890      895
Asn Gly Leu Leu Gly Gly Leu Asn Gly Ala Ala Ala Pro Asn Pro Ala
900      905      910
Ser Leu Ser Gln Ala Gly Gly Ala Pro Thr Leu Gln Leu Pro Gly Cys
915      920      925
Leu Asn Ser Leu Thr Glu Gln Gln Arg His Leu Leu Gln Gln Gln Glu
930      935      940
Gln Gln Leu Gln Gln Leu Gln Gln Leu Leu Ala Ser Pro Gln Leu Thr
945      950      955
Pro Glu His Gln Thr Val Val Tyr Gln Met Ile Gln Gln Ile Gln Gln
965      970      975
Lys Arg Glu Leu Gln Arg Leu Gln Met Ala Gly Gly Ser Gln Leu Pro
980      985      990
Met Ala Ser Leu Leu Ala Gly Ser Ser Thr Pro Leu Leu Ser Ala Gly
995      1000      1005
Thr Pro Gly Leu Leu Pro Thr Ala Ser Ala Pro Pro Leu Leu Pro
1010      1015      1020
Ala Gly Ala Leu Val Ala Pro Ser Leu Gly Asn Asn Thr Ser Leu
1025      1030      1035
Met Ala Ala Ala Ala Ala Ala Ala Ala Val Ala Ala Ala Gly Gly
1040      1045      1050
Pro Pro Val Leu Thr Ala Gln Thr Asn Pro Phe Leu Ser Leu Ser
1055      1060      1065
Gly Ala Glu Gly Ser Gly Gly Gly Pro Lys Gly Gly Thr Ala Asp
1070      1075      1080
Lys Gly Ala Ser Ala Asn Gln Glu Lys Gly
1085      1090
<210> 77

```

Siemens 0022 Seq Listing.txt

<211> 344

<212> PRT

<213> Homo sapiens

<400> 77

```

Met His Arg Thr Thr Arg Ile Lys Ile Thr Glu Leu Asn Pro His Leu
1      5      10      15
Met Cys Ala Leu Cys Gly Gly Tyr Phe Ile Asp Ala Thr Thr Ile Val
      20      25      30
Glu Cys Leu His Ser Phe Cys Lys Thr Cys Ile Val Arg Tyr Leu Glu
      35      40      45
Thr Asn Lys Tyr Cys Pro Met Cys Asp Val Gln Val His Lys Thr Arg
      50      55      60
Pro Leu Leu Ser Ile Arg Ser Asp Lys Thr Leu Gln Asp Ile Val Tyr
      65      70      75      80
Lys Leu Val Pro Gly Leu Phe Lys Asp Glu Met Lys Arg Arg Arg Asp
      85      90      95
Phe Tyr Ala Ala Tyr Pro Leu Thr Glu Val Pro Asn Gly Ser Asn Glu
      100      105      110
Asp Arg Gly Glu Val Leu Glu Gln Glu Lys Gly Ala Leu Ser Asp Asp
      115      120      125
Glu Ile Val Ser Leu Ser Ile Glu Phe Tyr Glu Gly Ala Arg Asp Arg
      130      135      140
Asp Glu Lys Lys Gly Pro Leu Glu Asn Gly Asp Gly Asp Lys Glu Lys
      145      150      155      160
Thr Gly Val Arg Phe Leu Arg Cys Pro Ala Ala Met Thr Val Met His
      165      170      175
Leu Ala Lys Phe Leu Arg Asn Lys Met Asp Val Pro Ser Lys Tyr Lys
      180      185      190
Val Glu Val Leu Tyr Glu Asp Glu Pro Leu Lys Glu Tyr Tyr Thr Leu
      195      200      205
Met Asp Ile Ala Tyr Ile Tyr Pro Trp Arg Arg Asn Gly Pro Leu Pro
      210      215      220
Leu Lys Tyr Arg Val Gln Pro Ala Cys Lys Arg Leu Thr Leu Ala Thr
      225      230      235      240
Val Pro Thr Pro Ser Glu Gly Thr Asn Thr Ser Gly Ala Ser Glu Cys
      245      250      255
Glu Ser Val Ser Asp Lys Ala Pro Ser Pro Ala Thr Leu Pro Ala Thr
      260      265      270
Ser Ser Ser Leu Pro Ser Pro Ala Thr Pro Ser His Gly Ser Pro Ser
      275      280      285
Ser His Gly Pro Pro Ala Thr His Pro Thr Ser Pro Thr Pro Pro Ser
      290      295      300
Thr Ala Ser Gly Ala Thr Thr Ala Ala Asn Gly Gly Ser Leu Asn Cys
      305      310      315      320
Leu Gln Thr Pro Ser Ser Thr Ser Arg Gly Arg Lys Met Thr Val Asn
      325      330      335
Gly Ala Pro Val Pro Pro Leu Thr
      340

```

<210> 78

<211> 416

<212> PRT

<213> Homo sapiens

Siemens 0022 Seq Listing.txt

<400> 78

```

Met Ser Ser Asn Cys Thr Ser Thr Thr Ala Val Ala Val Ala Pro Leu
1      5      10      15
Ser Ala Ser Lys Thr Lys Thr Lys Lys Lys His Phe Val Cys Gln Lys
20      25      30
Val Lys Leu Phe Arg Ala Ser Glu Pro Ile Leu Ser Val Leu Met Trp
35      40      45
Gly Val Asn His Thr Ile Asn Glu Leu Ser Asn Val Pro Val Pro Val
50      55      60
Met Leu Met Pro Asp Asp Phe Lys Ala Tyr Ser Lys Ile Lys Val Asp
65      70      75      80
Asn His Leu Phe Asn Lys Glu Asn Leu Pro Ser Arg Phe Lys Phe Lys
85      90      95
Glu Tyr Cys Pro Met Val Phe Arg Asn Leu Arg Glu Arg Phe Gly Ile
100      105      110
Asp Asp Gln Asp Tyr Gln Asn Ser Val Thr Arg Ser Ala Pro Ile Asn
115      120      125
Ser Asp Ser Gln Gly Arg Cys Gly Thr Arg Phe Leu Thr Thr Tyr Asp
130      135      140
Arg Arg Phe Val Ile Lys Thr Val Ser Ser Glu Asp Val Ala Glu Met
145      150      155      160
His Asn Ile Leu Lys Lys Tyr His Gln Phe Ile Val Glu Cys His Gly
165      170      175
Asn Thr Leu Leu Pro Gln Phe Leu Gly Met Tyr Arg Leu Thr Val Asp
180      185      190
Gly Val Glu Thr Tyr Met Val Val Thr Arg Asn Val Phe Ser His Arg
195      200      205
Leu Thr Val His Arg Lys Tyr Asp Leu Lys Gly Ser Thr Val Ala Arg
210      215      220
Glu Ala Ser Asp Lys Glu Lys Ala Lys Asp Leu Pro Thr Phe Lys Asp
225      230      235      240
Asn Asp Phe Leu Asn Glu Gly Gln Lys Leu His Val Gly Glu Glu Ser
245      250      255
Lys Lys Asn Phe Leu Glu Lys Leu Lys Arg Asp Val Glu Phe Leu Ala
260      265      270
Gln Leu Lys Ile Met Asp Tyr Ser Leu Leu Val Gly Ile His Asp Val
275      280      285
Asp Arg Ala Glu Gln Glu Glu Met Glu Val Glu Glu Arg Ala Glu Asp
290      295      300
Glu Glu Cys Glu Asn Asp Gly Val Gly Gly Asn Leu Leu Cys Ser Tyr
305      310      315      320
Gly Thr Pro Pro Asp Ser Pro Gly Asn Leu Leu Ser Phe Pro Arg Phe
325      330      335
Phe Gly Pro Gly Glu Phe Asp Pro Ser Val Asp Val Tyr Ala Met Lys
340      345      350
Ser His Glu Ser Ser Pro Lys Lys Glu Val Tyr Phe Met Ala Ile Ile
355      360      365
Asp Ile Leu Thr Pro Tyr Asp Thr Lys Lys Lys Ala Ala His Ala Ala
370      375      380
Lys Thr Val Lys His Gly Ala Gly Ala Glu Ile Ser Thr Val Asn Pro
385      390      395      400
Glu Gln Tyr Ser Lys Arg Phe Asn Glu Phe Met Ser Asn Ile Leu Thr
405      410      415

```

<210> 79

<211> 500

<212> PRT

<213> Homo sapiens

Siemens 0022 Seq Listing.txt

<400> 79

```

Met Arg Gly Glu Leu Trp Leu Leu Val Leu Val Leu Arg Glu Ala Ala
1      5      10      15
Arg Ala Leu Ser Pro Gln Pro Gly Ala Gly His Asp Glu Gly Pro Gly
      20      25      30
Ser Gly Trp Ala Ala Lys Gly Thr Val Arg Gly Trp Asn Arg Arg Ala
      35      40      45
Arg Glu Ser Pro Gly His Val Ser Glu Pro Asp Arg Thr Gln Leu Ser
      50      55      60
Gln Asp Leu Gly Gly Gly Thr Leu Ala Met Asp Thr Leu Pro Asp Asn
      65      70      75      80
Arg Thr Arg Val Val Glu Asp Asn His Ser Tyr Tyr Val Ser Arg Leu
      85      90      95
Tyr Gly Pro Ser Glu Pro His Ser Arg Glu Leu Trp Val Asp Val Ala
      100      105      110
Glu Ala Asn Arg Ser Gln Val Lys Ile His Thr Ile Leu Ser Asn Thr
      115      120      125
His Arg Gln Ala Ser Arg Val Val Leu Ser Phe Asp Phe Pro Phe Tyr
      130      135      140
Gly His Pro Leu Arg Gln Ile Thr Ile Ala Thr Gly Gly Phe Ile Phe
      145      150      155      160
Met Gly Asp Val Ile His Arg Met Leu Thr Ala Thr Gln Tyr Val Ala
      165      170      175
Pro Leu Met Ala Asn Phe Asn Pro Gly Tyr Ser Asp Asn Ser Thr Val
      180      185      190
Val Tyr Phe Asp Asn Gly Thr Val Phe Val Val Gln Trp Asp His Val
      195      200      205
Tyr Leu Gln Gly Trp Glu Asp Lys Gly Ser Phe Thr Phe Gln Ala Ala
      210      215      220
Leu His His Asp Gly Arg Ile Val Phe Ala Tyr Lys Glu Ile Pro Met
      225      230      235      240
Ser Val Pro Glu Ile Ser Ser Ser Gln His Pro Val Lys Thr Gly Leu
      245      250      255
Ser Asp Ala Phe Met Ile Leu Asn Pro Ser Pro Asp Val Pro Glu Ser
      260      265      270
Arg Arg Arg Ser Ile Phe Glu Tyr His Arg Ile Glu Leu Asp Pro Ser
      275      280      285
Lys Val Thr Ser Met Ser Ala Val Glu Phe Thr Pro Leu Pro Thr Cys
      290      295      300
Leu Gln His Arg Ser Cys Asp Ala Cys Met Ser Ser Asp Leu Thr Phe
      305      310      315      320
Asn Cys Ser Trp Cys His Val Leu Gln Arg Cys Ser Ser Gly Phe Asp
      325      330      335
Arg Tyr Arg Gln Glu Trp Met Asp Tyr Gly Cys Ala Gln Glu Ala Glu
      340      345      350
Gly Arg Met Cys Glu Asp Phe Gln Asp Glu Asp His Asp Ser Ala Ser
      355      360      365
Pro Asp Thr Ser Phe Ser Pro Tyr Asp Gly Asp Leu Thr Thr Thr Ser
      370      375      380
Ser Ser Leu Phe Ile Asp Ser Leu Thr Thr Glu Asp Asp Thr Lys Leu
      385      390      395      400
Asn Pro Tyr Ala Gly Gly Asp Gly Leu Gln Asn Asn Leu Ser Pro Lys
      405      410      415
Thr Lys Gly Thr Pro Val His Leu Gly Thr Ile Val Gly Ile Val Leu
      420      425      430
Ala Val Leu Val Ala Ala Ile Leu Ala Gly Ile Tyr Ile Asn
      435      440      445
Gly His Pro Thr Ser Asn Ala Ala Leu Phe Phe Ile Glu Arg Arg Pro
      450      455      460
His His Trp Pro Ala Met Lys Phe Arg Ser His Pro Asp His Ser Thr
      465      470      475      480
Tyr Ala Glu Val Glu Pro Ser Gly His Glu Lys Glu Gly Phe Met Glu
      485      490      495

```

Siemens 0022 Seq Listing.txt

Ala Glu Gln Cys
500

<210> 80

<211> 509

<212> PRT

<213> Homo sapiens

<400> 80

```

Met Glu Asp Ile Gln Thr Asn Ala Glu Leu Lys Ser Thr Gln Glu Gln
1      5      10      15
Ser Val Pro Ala Glu Ser Ala Ala Val Leu Asn Asp Tyr Ser Leu Thr
      20      25      30
Lys Ser His Glu Met Glu Asn Val Asp Ser Gly Glu Gly Pro Ala Asn
      35      40      45
Glu Asp Glu Asp Ile Gly Asp Ser Met Lys Val Lys Asp Glu Tyr
      50      55      60
Ser Glu Arg Asp Glu Asn Val Leu Lys Ser Glu Pro Met Gly Asn Ala
65      70      75      80
Glu Glu Pro Glu Ile Pro Tyr Ser Tyr Ser Arg Glu Tyr Asn Glu Tyr
      85      90      95
Glu Asn Ile Lys Leu Glu Arg His Val Ser Phe Asp Ser Ser Arg
      100      105      110
Pro Thr Ser Gly Lys Met Asn Cys Asp Val Cys Gly Leu Ser Cys Ile
      115      120      125
Ser Phe Asn Val Leu Met Val His Lys Arg Ser His Thr Gly Glu Arg
130      135      140
Pro Phe Gln Cys Asn Gln Cys Gly Ala Ser Phe Thr Gln Lys Gly Asn
145      150      155      160
Leu Leu Arg His Ile Lys Leu His Thr Gly Glu Lys Pro Phe Lys Cys
      165      170      175
His Leu Cys Asn Tyr Ala Cys Gln Arg Arg Asp Ala Leu Thr Gly His
      180      185      190
Leu Arg Thr His Ser Val Glu Lys Pro Tyr Lys Cys Glu Phe Cys Gly
195      200      205
Arg Ser Tyr Lys Gln Arg Ser Ser Leu Glu Glu His Lys Glu Arg Cys
210      215      220
Arg Thr Phe Leu Gln Ser Thr Asp Pro Gly Asp Thr Ala Ser Ala Glu
225      230      235      240
Ala Arg His Ile Lys Ala Glu Met Gly Ser Glu Arg Ala Leu Val Leu
      245      250      255
Asp Arg Leu Ala Ser Asn Val Ala Lys Arg Lys Ser Ser Met Pro Gln
260      265      270
Lys Phe Ile Gly Glu Lys Arg His Cys Phe Asp Val Asn Tyr Asn Ser
275      280      285
Ser Tyr Met Tyr Glu Lys Glu Ser Glu Leu Ile Gln Thr Arg Met Met
290      295      300
Asp Gln Ala Ile Asn Asn Ala Ile Ser Tyr Leu Gly Ala Glu Ala Leu
305      310      315      320
Cys Pro Leu Val Gln Thr Pro Pro Ala Pro Thr Ser Glu Met Val Pro
      325      330      335
Val Ile Ser Ser Met Tyr Pro Ile Ala Leu Thr Arg Ala Glu Met Ser
340      345      350
Asn Gly Ala Pro Gln Glu Leu Glu Arg Lys Ser Ile Leu Leu Pro Glu
355      360      365
Lys Ser Val Pro Ser Glu Arg Gly Leu Ser Pro Asn Asn Ser Gly His
370      375      380
Asp Ser Thr Asp Thr Asp Ser Asn His Glu Glu Arg Gln Asn His Ile
385      390      395      400

```

Siemens 0022 Seq Listing.txt

Tyr Gln Gln Asn His Met Val Leu Ser Arg Ala Arg Asn Gly Met Pro
 405 410 415
 Leu Leu Lys Glu Val Pro Arg Ser Tyr Glu Leu Leu Lys Pro Pro Pro
 420 425 430
 Ile Cys Pro Arg Asp Ser Val Lys Val Ile Asp Lys Glu Gly Glu Val
 435 440 445
 Met Asp Val Tyr Arg Cys Asp His Cys Arg Val Leu Phe Leu Asp Tyr
 450 455 460
 Val Met Phe Thr Ile His Met Gly Cys His Gly Phe Arg Asp Pro Phe
 465 470 475 480
 Glu Cys Asn Met Cys Gly Asp Arg Ser His Asp Arg Tyr Glu Phe Ser
 485 490 495
 Ser His Ile Ala Arg Gly Glu His Arg Ser Leu Leu Lys
 500 505

<210> 81

<211> 440

<212> PRT

<213> Homo sapiens

<400> 81

Met Pro Ile Pro Pro Pro Pro Pro Pro Pro Gly Pro Pro Pro Pro
 1 5 10 15
 Pro Thr Phe His Gln Ala Asn Thr Glu Gln Pro Lys Leu Ser Arg Asp
 20 25 30
 Glu Gln Arg Gly Arg Gly Ala Leu Leu Gln Asp Ile Cys Lys Gly Thr
 35 40 45
 Lys Leu Lys Lys Val Thr Asn Ile Asn Asp Arg Ser Ala Pro Ile Leu
 50 55 60
 Glu Lys Pro Lys Gly Ser Ser Gly Gly Tyr Gly Ser Gly Gly Ala Ala
 65 70 75 80
 Leu Gln Pro Lys Gly Gly Leu Phe Gln Gly Gly Val Leu Lys Leu Arg
 85 90 95
 Pro Val Gly Ala Lys Asp Gly Ser Glu Asn Leu Ala Gly Lys Pro Ala
 100 105 110
 Leu Gln Ile Pro Ser Ser Arg Ala Ala Ala Pro Arg Pro Pro Val Ser
 115 120 125
 Ala Ala Ser Gly Arg Pro Gln Asp Asp Thr Asp Ser Ser Arg Ala Ser
 130 135 140
 Leu Pro Glu Leu Pro Arg Met Gln Arg Pro Ser Leu Pro Asp Leu Ser
 145 150 155 160
 Arg Pro Asn Thr Thr Ser Ser Thr Gly Met Lys His Ser Ser Ser Ala
 165 170 175
 Pro Pro Pro Pro Pro Pro Gly Arg Arg Ala Asn Ala Pro Pro Thr Pro
 180 185 190
 Leu Pro Met His Ser Ser Lys Ala Pro Ala Tyr Asn Arg Glu Lys Pro
 195 200 205
 Leu Pro Pro Thr Pro Gly Gln Arg Leu His Pro Gly Arg Glu Gly Pro
 210 215 220
 Pro Ala Pro Pro Pro Val Lys Pro Pro Pro Ser Pro Val Asn Ile Arg
 225 230 235 240
 Thr Gly Pro Ser Gly Gln Ser Leu Ala Pro Pro Pro Pro Tyr Arg
 245 250 255
 Gln Pro Pro Gly Val Pro Asn Gly Pro Ser Ser Pro Thr Asn Glu Ser
 260 265 270
 Ala Pro Glu Leu Pro Gln Arg His Asn Ser Leu His Arg Lys Thr Pro
 275 280 285
 Gly Pro Val Arg Gly Leu Ala Pro Pro Pro Thr Ser Ala Ser Pro
 290 295 300

Siemens 0022 Seq Listing.txt

Ser Leu Leu Ser Asn Arg Pro Pro Pro Pro Ala Arg Asp Pro Pro Ser
 305 310 315 320
 Arg Gly Ala Ala Pro Pro Pro Pro Val Ile Arg Asn Gly Ala
 325 330 335
 Arg Asp Ala Pro Pro Pro Pro Pro Tyr Arg Met His Gly Ser Glu
 340 345 350
 Pro Pro Ser Arg Gly Lys Pro Pro Pro Pro Ser Arg Thr Pro Ala
 355 360 365
 Gly Pro Pro Pro Pro Pro Pro Pro Leu Arg Asn Gly His Arg Asp
 370 375 380
 Ser Ile Thr Thr Val Arg Ser Phe Leu Asp Asp Phe Glu Ser Lys Tyr
 385 390 395 400
 Ser Phe His Pro Val Glu Asp Phe Pro Ala Pro Glu Glu Tyr Lys His
 405 410 415
 Phe Gln Arg Ile Tyr Pro Ser Lys Thr Asn Arg Ala Ala Arg Gly Ala
 420 425 430
 Pro Pro Leu Pro Pro Ile Leu Arg
 435 440
 <210> 82
 <211> 205
 <212> PRT
 <213> Homo sapiens

<400> 82
 Met Ser Ile Met Ser Tyr Asn Gly Gly Ala Val Met Ala Met Lys Gly
 1 5 10 15
 Lys Asn Cys Val Ala Ile Ala Ala Asp Arg Arg Phe Gly Ile Gln Ala
 20 25 30
 Gln Met Val Thr Thr Asp Phe Gln Lys Ile Phe Pro Met Gly Asp Arg
 35 40 45
 Leu Tyr Ile Gly Leu Ala Gly Leu Ala Thr Asp Val Gln Thr Val Ala
 50 55 60
 Gln Arg Leu Lys Phe Arg Leu Asn Leu Tyr Glu Leu Lys Glu Gly Arg
 65 70 75 80
 Gln Ile Lys Pro Tyr Thr Leu Met Ser Met Val Ala Asn Leu Leu Tyr
 85 90 95
 Glu Lys Arg Phe Gly Pro Tyr Tyr Thr Glu Pro Val Ile Ala Gly Leu
 100 105 110
 Asp Pro Lys Thr Phe Lys Pro Phe Ile Cys Ser Leu Asp Leu Ile Gly
 115 120 125
 Cys Pro Met Val Thr Asp Asp Phe Val Val Ser Gly Thr Cys Ala Glu
 130 135 140
 Gln Met Tyr Gly Met Cys Glu Ser Leu Trp Glu Pro Asn Met Asp Pro
 145 150 155 160
 Asp His Leu Phe Glu Thr Ile Ser Gln Ala Met Leu Asn Ala Val Asp
 165 170 175
 Arg Asp Ala Val Ser Gly Met Gly Val Ile Val His Ile Ile Glu Lys
 180 185 190
 Asp Lys Ile Thr Thr Arg Thr Leu Lys Ala Arg Met Asp
 195 200 205
 <210> 83
 <211> 190
 <212> PRT
 <213> Homo sapiens

Siemens 0022 Seq Listing.txt

<400> 83

```

1  Leu Thr Arg Ser Cys Ser Thr Cys Cys Pro Ala Val Ala Cys Leu Val
   1      5      10      15
Gly Arg Gly Val Val Thr Ser Gly Ala Met His Gln Cys Trp Gly Glu
   20      25      30
Glu Met Leu Gln Gly Met Leu Leu Trp Gly Trp Ala Thr Cys Pro Leu
   35      40      45
Ser Asn Pro Gly Arg Trp Gly Arg Thr Val Gly Leu Gln His Pro Ala
   50      55      60
Val Val Ser Ala Phe Arg Ala Leu Leu Leu Met Leu Thr Val His
   65      70      75      80
Val Ser Tyr Leu Ser Leu Ile Arg Phe Asp Tyr Gly Tyr Asn Leu Val
   85      90      95
Ala Asn Val Ala Ile Gly Leu Val Asn Val Val Trp Trp Leu Ala Trp
   100      105      110
Cys Leu Trp Asn Gln Arg Arg Leu Pro His Val Arg Lys Cys Val Val
   115      120      125
Val Val Leu Leu Leu Gln Gly Leu Ser Leu Leu Glu Leu Leu Asp Phe
   130      135      140
Pro Pro Leu Phe Trp Val Leu Asp Ala His Ala Ile Trp His Ile Ser
   145      150      155      160
Thr Ile Pro Val His Val Leu Phe Phe Ser Phe Leu Glu Asp Asp Ser
   165      170      175
Leu Tyr Leu Leu Lys Glu Ser Glu Asp Lys Phe Lys Leu Asp
   180      185      190

```

<210> 84

<211> 368

<212> PRT

<213> Homo sapiens

<400> 84

```

1  Ala Pro Pro Pro Ala Ala Ser Gln Gly Glu Arg Met Ala Gly Leu Ala
   1      5      10      15
Ala Arg Leu Val Leu Leu Ala Gly Ala Ala Ala Leu Ala Ser Gly Ser
   20      25      30
Gln Gly Asp Arg Glu Pro Val Tyr Arg Asp Cys Val Leu Gln Cys Glu
   35      40      45
Glu Gln Asn Cys Ser Gly Gly Ala Leu Asn His Phe Arg Ser Arg Gln
   50      55      60
Pro Ile Tyr Met Ser Leu Ala Gly Trp Thr Cys Arg Asp Asp Cys Lys
   65      70      75      80
Tyr Glu Cys Met Trp Val Thr Val Gly Leu Tyr Leu Gln Glu Gly His
   85      90      95
Lys Val Pro Gln Phe His Gly Lys Trp Pro Phe Ser Arg Phe Leu Phe
   100      105      110
Phe Gln Glu Pro Ala Ser Ala Val Ala Ser Phe Leu Asn Gly Leu Ala
   115      120      125
Ser Leu Val Met Leu Cys Arg Tyr Arg Thr Phe Val Pro Ala Ser Ser
   130      135      140
Pro Met Tyr His Thr Cys Val Ala Phe Ala Trp Val Ser Leu Asn Ala
   145      150      155      160
Trp Phe Trp Ser Thr Val Phe His Thr Arg Asp Thr Asp Leu Thr Glu
   165      170      175
Lys Met Asp Tyr Phe Cys Ala Ser Thr Val Ile Leu His Ser Ile Tyr
   180      185      190
Leu Cys Cys Val Arg Thr Val Gly Leu Gln His Pro Ala Val Val Ser

```


Siemens 0022: Seq Listing.txt

```

195
Ala Phe Arg Ala Leu Leu Leu 200 Leu Met Leu Thr Val 205 His Val Ser Tyr
210
Leu Ser Leu Ile Arg Phe Asp Tyr Gly Tyr Asn Leu Val Ala Asn Val
225
Ala Ile Gly Leu Val Asn Val Val Trp Trp Leu Ala Trp Cys Leu Trp
245
Asn Gln Arg Arg Leu Pro His Val Arg Lys Cys Val Val Val Val Leu
260
Leu Leu Gln Gly Leu Ser Leu Leu Glu Leu Leu Asp Phe Pro Pro Leu
275
Phe Trp Val Leu Asp Ala His Ala Ile Trp His Ile Ser Thr Ile Pro
290
Val His Val Leu Phe Phe Ser Phe Leu Glu Asp Asp Ser Leu Tyr Leu
305
Leu Lys Glu Ser Glu Asp Lys Phe Lys Leu Val Glu Ala Asp Trp Ile
325
Phe Ala Leu Pro Leu Thr Pro Cys Pro Ser Leu Arg Glu Gly Ser Tyr
340
Ala Arg Thr Pro Thr Ser Gly Thr Arg Val Ala Cys Ala Ser Phe Phe
355

```

<210> 85

<211> 190

<212> PRT

<213> Homo sapiens

<400> 85

```

1 Leu Thr Arg Ser Cys Ser Thr Cys Cys Pro Ala Val Ala Cys Leu Val
5
Gly Arg Gly Val Val Thr Ser Gly Ala Met His Gln Cys Trp Gly Glu
20
Glu Met Leu Gln Gly Met Leu Leu Trp Gly Trp Ala Thr Cys Pro Leu
35
Ser Asn Pro Gly Arg Trp Gly Arg Thr Val Gly Leu Gln His Pro Ala
50
Val Val Ser Ala Phe Arg Ala Leu Leu Leu Leu Met Leu Thr Val His
65
Val Ser Tyr Leu Ser Leu Ile Arg Phe Asp Tyr Gly Tyr Asn Leu Val
85
Ala Asn Val Ala Ile Gly Leu Val Asn Val Val Trp Trp Leu Ala Trp
100
Cys Leu Trp Asn Gln Arg Arg Leu Pro His Val Arg Lys Cys Val Val
115
Val Val Leu Leu Leu Gln Gly Leu Ser Leu Leu Glu Leu Leu Asp Phe
130
Pro Pro Leu Phe Trp Val Leu Asp Ala His Ala Ile Trp His Ile Ser
145
Thr Ile Pro Val His Val Leu Phe Phe Ser Phe Leu Glu Asp Asp Ser
165
Leu Tyr Leu Leu Lys Glu Ser Glu Asp Lys Phe Lys Leu Asp
180
185
190

```

<210> 86

<211> 318

<212> PRT

<213> Homo sapiens

Siemens 0022 Seq Listing.txt

<400> 86

```

Met Ala Gly Leu Ala Ala Arg Leu Val Leu Leu Ala Gly Ala Ala Ala
1      5      10      15
Leu Ala Ser Gly Ser Gln Gly Asp Arg Glu Pro Val Tyr Arg Asp Cys
      20      25      30
Val Leu Gln Cys Glu Glu Gln Asn Cys Ser Gly Gly Ala Leu Asn His
      35      40      45
Phe Arg Ser Arg Gln Pro Ile Tyr Met Ser Leu Ala Gly Trp Thr Cys
      50      55      60
Arg Asp Asp Cys Lys Tyr Glu Cys Met Trp Val Thr Val Gly Leu Tyr
65      70      75      80
Leu Gln Glu Gly His Lys Val Pro Gln Phe His Gly Lys Trp Pro Phe
      85      90      95
Ser Arg Phe Leu Phe Phe Gln Glu Pro Ala Ser Ala Val Ala Ser Phe
      100      105      110
Leu Asn Gly Leu Ala Ser Leu Val Met Leu Cys Arg Tyr Arg Thr Phe
      115      120      125
Val Pro Ala Ser Ser Pro Met Tyr His Thr Cys Val Ala Phe Ala Trp
      130      135      140
Val Ser Leu Asn Ala Trp Phe Trp Ser Thr Val Phe His Thr Arg Asp
145      150      155      160
Thr Asp Leu Gln Arg Lys Trp Thr Thr Ser Val Pro Pro Val Ser Tyr
      165      170      175
Thr Gln Ser Thr Cys Ala Ala Ser Gly Pro Trp Gly Cys Ser Thr Gln
      180      185      190
Leu Trp Ser Ser Ala Phe Arg Ala Leu Leu Leu Leu Met Leu Thr Val
      195      200      205
His Val Ser Tyr Leu Ser Leu Ile Arg Phe Asp Tyr Gly Tyr Asn Leu
      210      215      220
Val Ala Asn Val Ala Ile Gly Leu Val Asn Val Val Trp Trp Leu Ala
225      230      235      240
Trp Cys Leu Trp Asn Gln Arg Arg Leu Pro His Val Arg Lys Cys Val
      245      250      255
Val Val Val Leu Leu Gln Gly Leu Ser Leu Leu Glu Leu Leu Asp
      260      265      270
Phe Pro Pro Leu Phe Trp Val Leu Asp Ala His Ala Ile Trp His Ile
      275      280      285
Ser Thr Ile Pro Val His Val Leu Phe Phe Ser Phe Leu Glu Asp Asp
      290      295      300
Ser Leu Tyr Leu Leu Lys Glu Ser Glu Asp Lys Phe Lys Leu
305      310      315

```

<210> 87

<211> 226

<212> PRT

<213> Homo sapiens

<400> 87

```

Met Ala Gly Leu Ala Ala Arg Leu Val Leu Leu Ala Gly Ala Ala Ala
1      5      10      15
Leu Ala Ser Gly Ser Gln Gly Asp Arg Glu Pro Val Tyr Arg Asp Cys
      20      25      30
Val Leu Gln Cys Glu Glu Gln Asn Cys Ser Gly Gly Ala Leu Asn His
      35      40      45
Phe Arg Ser Arg Gln Pro Ile Tyr Met Ser Leu Ala Gly Trp Thr Cys
      50      55      60

```

Siemens 0022 Seq Listing.txt

```

Arg Asp Asp Cys Lys Tyr Glu Cys Met Trp Val Thr Val Gly Leu Tyr
65      70      75      80
Leu Gln Glu Gly His Lys Val Pro Gln Phe His Gly Lys Trp Pro Phe
      85      90      95
Ser Arg Phe Leu Phe Phe Gln Glu Pro Ala Ser Ala Val Ala Ser Phe
      100      105      110
Leu Asn Gly Leu Ala Ser Leu Val Met Leu Cys Arg Tyr Arg Thr Phe
      115      120      125
Val Pro Ala Ser Ser Pro Met Tyr His Thr Cys Val Ala Phe Ala Trp
      130      135      140
Val Ser Leu Asn Ala Trp Phe Trp Ser Thr Val Phe His Thr Arg Asp
145      150      155      160
Thr Asp Leu Thr Glu Lys Met Asp Tyr Phe Cys Ala Ser Thr Val Ile
      165      170      175
Leu His Ser Ile Tyr Leu Cys Cys Val Arg Pro Gly Gln Arg Gly Val
      180      185      190
Val Ala Gly Leu Val Pro Val Glu Pro Ala Ala Ala Ala Ser Arg Ala
      195      200      205
Gln Val Arg Gly Gly Gly Leu Ala Ala Ala Gly Ala Val Pro Ala Arg
210      215      220
Ala Ala
225

```

<210> 88

<211> 320

<212> PRT

<213> Homo sapiens

<400> 88

```

Met Ala Gly Leu Ala Ala Arg Leu Val Leu Leu Ala Gly Ala Ala Ala
1      5      10      15
Leu Ala Ser Gly Ser Gln Gly Asp Arg Glu Pro Val Tyr Arg Asp Cys
      20      25      30
Val Leu Gln Cys Glu Glu Gln Asn Cys Ser Gly Gly Ala Leu Asn His
      35      40      45
Phe Arg Ser Arg Gln Pro Ile Tyr Met Ser Leu Ala Gly Trp Thr Cys
      50      55      60
Arg Asp Asp Cys Lys Tyr Glu Cys Met Trp Val Thr Val Gly Leu Tyr
65      70      75      80
Leu Gln Glu Gly His Lys Val Pro Gln Phe His Gly Lys Trp Pro Phe
      85      90      95
Ser Arg Phe Leu Phe Phe Gln Glu Pro Ala Ser Ala Val Ala Ser Phe
      100      105      110
Leu Asn Gly Leu Ala Ser Leu Val Met Leu Cys Arg Tyr Arg Thr Phe
      115      120      125
Val Pro Ala Ser Ser Pro Met Tyr His Thr Cys Val Ala Phe Ala Trp
      130      135      140
Val Ser Leu Asn Ala Trp Phe Trp Ser Thr Val Phe His Thr Arg Asp
145      150      155      160
Thr Asp Leu Thr Glu Lys Met Asp Tyr Phe Cys Ala Ser Thr Val Ile
      165      170      175
Leu His Ser Ile Tyr Leu Cys Cys Val Arg Thr Val Gly Leu Gln His
      180      185      190
Pro Ala Val Val Ser Ala Phe Arg Ala Leu Leu Leu Leu Met Leu Thr
      195      200      205
Val His Val Ser Tyr Leu Ser Leu Ile Arg Phe Asp Tyr Gly Tyr Asn
210      215      220
Leu Val Ala Asn Val Ala Ile Gly Leu Val Asn Val Val Trp Trp Leu
225      230      235      240

```

Siemens 0022 Seq Listing.txt

Ala Trp Cys Leu Trp Asn Gln Arg Arg Leu Pro His Val Arg Lys Cys
 245 250 255
 Val Val Val Val Leu Leu Leu Gln Gly Leu Ser Leu Leu Glu Leu Leu
 260 265 270
 Asp Phe Pro Pro Leu Phe Trp Val Leu Asp Ala His Ala Ile Trp His
 275 280 285
 Ile Ser Thr Ile Pro Val His Val Leu Phe Phe Ser Phe Leu Glu Asp
 290 295 300
 Asp Ser Leu Tyr Leu Leu Lys Glu Ser Glu Asp Lys Phe Lys Leu Asp
 305 310 315 320
 <210> 89

<211> 217

<212> PRT

<213> Homo sapiens

<400> 89

Ala Pro Pro Pro Ala Ala Ser Gln Gly Glu Arg Met Ala Gly Leu Ala
 1 5 10 15
 Ala Arg Leu Val Leu Leu Ala Gly Ala Ala Ala Leu Ala Ser Gly Ser
 20 25 30
 Gln Gly Asp Arg Glu Pro Val Tyr Arg Asp Cys Val Leu Gln Cys Glu
 35 40 45
 Glu Gln Asn Cys Ser Gly Gly Ala Leu Asn His Phe Arg Ser Arg Gln
 50 55 60
 Pro Ile Tyr Met Ser Leu Ala Gly Trp Thr Cys Arg Asp Asp Cys Lys
 65 70 75 80
 Tyr Glu Cys Met Trp Val Thr Val Gly Leu Tyr Leu Gln Glu Gly His
 85 90 95
 Lys Val Pro Gln Phe His Gly Lys Trp Pro Phe Ser Arg Phe Leu Phe
 100 105 110
 Phe Gln Glu Pro Ala Ser Ala Val Ala Ser Phe Leu Asn Gly Leu Ala
 115 120 125
 Ser Leu Val Met Leu Cys Arg Tyr Arg Thr Phe Val Pro Ala Ser Ser
 130 135 140
 Pro Met Tyr His Thr Cys Val Ala Phe Ala Trp Val Ser Leu Asn Ala
 145 150 155 160
 Trp Phe Trp Ser Thr Val Phe His Thr Arg Asp Thr Asp Leu Thr Glu
 165 170 175
 Lys Met Asp Tyr Phe Cys Ala Ser Thr Val Ile Leu His Ser Ile Tyr
 180 185 190
 Leu Cys Cys Val Ser Phe Leu Glu Asp Asp Ser Leu Tyr Leu Leu Lys
 195 200 205
 Glu Ser Glu Asp Lys Phe Lys Leu Asp
 210 215

<210> 90

<211> 153

<212> PRT

<213> Homo sapiens

<400> 90

Met Asn Val Gly Thr Ala His Ser Glu Val Asn Pro Asn Thr Arg Val
 1 5 10 15
 Met Asn Ser Arg Gly Ile Trp Leu Ser Tyr Val Leu Ala Ile Gly Leu
 Page 100

Siemens 0022 Seq Listing.txt

```

      20      25      30
Leu His Ile Val Leu Leu Ser Ile Pro Phe Val Ser Val Pro Val Val
      35      40      45
Trp Thr Leu Thr Asn Leu Ile His Asn Met Gly Met Tyr Ile Phe Leu
      50      55      60
His Thr Val Lys Gly Thr Pro Phe Glu Thr Pro Asp Gln Gly Lys Ala
      65      70      75      80
Arg Leu Leu Thr His Trp Glu Gln Met Asp Tyr Gly Val Gln Phe Thr
      85      90      95
Ala Ser Arg Lys Phe Leu Thr Ile Thr Pro Ile Val Leu Tyr Phe Leu
      100      105      110
Thr Ser Phe Tyr Thr Lys Tyr Asp Gln Ile His Phe Val Leu Asn Thr
      115      120      125
Val Ser Leu Met Ser Val Leu Ile Pro Lys Leu Pro Gln Leu His Gly
      130      135      140
Val Arg Ile Phe Gly Ile Asn Lys Tyr
      145      150

```

<210> 91

<211> 436

<212> PRT

<213> Homo sapiens

<400> 91

```

Met Arg Arg Asp Val Asn Gly Val Thr Lys Ser Arg Phe Glu Met Phe
1      5      10      15
Ser Asn Ser Asp Glu Ala Val Ile Asn Lys Lys Leu Pro Lys Glu Leu
      20      25      30
Leu Leu Arg Ile Phe Ser Phe Leu Asp Val Val Thr Leu Cys Arg Cys
      35      40      45
Ala Gln Val Ser Arg Ala Trp Asn Val Leu Ala Leu Asp Gly Ser Asn
      50      55      60
Trp Gln Arg Ile Asp Leu Phe Asp Phe Gln Arg Asp Ile Glu Gly Arg
      65      70      75      80
Val Val Glu Asn Ile Ser Lys Arg Cys Gly Gly Phe Leu Arg Lys Leu
      85      90      95
Ser Leu Arg Gly Cys Leu Gly Val Gly Asp Asn Ala Leu Arg Thr Phe
      100      105      110
Ala Gln Asn Cys Arg Asn Ile Glu Val Leu Asn Leu Asn Gly Cys Thr
      115      120      125
Lys Thr Thr Asp Ala Thr Cys Thr Ser Leu Ser Lys Phe Cys Ser Lys
      130      135      140
Leu Arg His Leu Asp Leu Ala Ser Cys Thr Ser Ile Thr Asn Met Ser
      145      150      155      160
Leu Lys Ala Leu Ser Glu Gly Cys Pro Leu Leu Glu Gln Leu Asn Ile
      165      170      175
Ser Trp Cys Asp Gln Val Thr Lys Asp Gly Ile Gln Ala Leu Val Arg
      180      185      190
Gly Cys Gly Gly Leu Lys Ala Leu Phe Leu Lys Gly Cys Thr Gln Leu
      195      200      205
Glu Asp Glu Ala Leu Lys Tyr Ile Gly Ala His Cys Pro Glu Leu Val
      210      215      220
Thr Leu Asn Leu Gln Thr Cys Leu Gln Ile Thr Asp Glu Gly Leu Ile
      225      230      235      240
Thr Ile Cys Arg Gly Cys His Lys Leu Gln Ser Leu Cys Ala Ser Gly
      245      250      255
Cys Ser Asn Ile Thr Asp Ala Ile Leu Asn Ala Leu Gly Gln Asn Cys
      260      265      270
Pro Arg Leu Arg Ile Leu Glu Val Ala Arg Cys Ser Gln Leu Thr Asp

```

Siemens 0022 Seq Listing.txt

```

Val Gly 275 Thr Thr Leu Ala 280 Arg Asn Cys His Glu 285 Leu Glu Lys Met
290 Phe 295 Gln Ile Thr Asp Ser Thr Leu Ile Gln Leu
305 Asp Leu Glu Glu Cys Val 310 Gln Ile Thr Asp Ser Thr Leu Ile Gln Leu
315 Ser Ile His Cys Pro Arg Leu Gln Val Leu Ser Leu Ser His Cys Glu
325 Leu Ile Thr Asp Asp Gly Ile Arg His 330 Leu Gly Asn Gly Ala Cys Ala
340 His Asp Gln Leu Glu Val Ile Glu Leu Asp Asn Cys Pro Leu Ile Thr
355 Asp Ala Ser Leu Glu His Leu Lys Ser Cys His Ser Leu Glu Arg Ile
370 Glu Leu Tyr Asp Cys Gln Ile Thr Arg Ala Gly Ile Lys Arg Leu
385 Arg Thr His Leu Pro Asn Ile Lys Val His Ala Tyr Phe Ala Pro Val
405 Thr Pro Pro Pro Ser Val Gly Gly Ser Arg Gln Arg Phe Cys Arg Cys
420 Cys Ile Ile Leu
435

```

<210> 92

<211> 204

<212> PRT

<213> Homo sapiens

<400> 92

```

Met Asp Pro Lys Asp Arg Lys Lys Ile Gln Phe Ser Val Pro Ala Pro
1 5 10 15
Pro Ser Gln Leu Asp Pro Arg Gln Val Glu Met Ile Arg Arg Arg Arg
20 25 30
Pro Thr Pro Ala Met Leu Phe Arg Leu Ser Glu His Ser Pro Glu
35 40 45
Glu Glu Ala Ser Pro His Gln Arg Ala Ser Gly Glu Gly His His Leu
50 55 60
Lys Ser Lys Arg Pro Asn Pro Cys Ala Tyr Thr Pro Pro Ser Leu Lys
65 70 75 80
Ala Val Gln Arg Ile Ala Glu Ser His Leu Gln Ser Ile Ser Asn Leu
85 90 95
Asn Glu Asn Gln Ala Ser Glu Glu Glu Asp Glu Leu Gly Glu Leu Arg
100 105 110
Glu Leu Gly Tyr Pro Arg Glu Glu Asp Glu Glu Glu Glu Asp Asp
115 120 125
Glu Glu Glu Glu Glu Glu Asp Ser Gln Ala Glu Val Leu Lys Val
130 135 140
Ile Arg Gln Ser Ala Gly Gln Lys Thr Thr Cys Gly Gln Gly Leu Glu
145 150 155 160
Gly Pro Trp Glu Arg Pro Pro Pro Leu Asp Glu Ser Glu Arg Asp Gly
165 170 175
Gly Ser Glu Asp Gln Val Glu Asp Pro Ala Leu Ser Glu Pro Gly Glu
180 185 190
Glu Pro Gln Arg Pro Ser Pro Ser Glu Pro Gly Thr
195 200

```

<210> 93

<211> 115

<212> PRT

Siemens 0022 Seq Listing.txt

<213> Homo sapiens

<400> 93

```

Met Ser Gly Glu Pro Gly Gln Thr Ser Val Ala Pro Pro Pro Glu Glu
1      5      10      15
Val Glu Pro Gly Ser Gly Val Arg Ile Val Val Glu Tyr Cys Glu Pro
20      25      30
Cys Gly Phe Glu Ala Thr Tyr Leu Glu Leu Ala Ser Ala Val Lys Glu
35      40      45
Gln Tyr Pro Gly Ile Glu Ile Glu Ser Arg Leu Gly Gly Thr Gly Ala
50      55      60
Phe Glu Ile Glu Ile Asn Gly Gln Leu Val Phe Ser Lys Leu Glu Asn
65      70      75      80
Gly Gly Phe Pro Tyr Glu Lys Asp Leu Ile Glu Ala Ile Arg Arg Ala
85      90      95
Ser Asn Gly Glu Thr Leu Glu Lys Ile Thr Asn Ser Arg Pro Pro Cys
100      105      110
Val Ile Leu
115

```

<210> 94

<211> 144

<212> PRT

<213> Homo sapiens

<400> 94

```

Met Gly Ala Val Val Leu Cys Arg Pro Ser Pro Leu Asn Phe Leu Ile
1      5      10      15
Gln Thr Gly Thr Gly Gln Gly Leu Ser Cys Gly Ser His Met Trp Arg
20      25      30
Cys Glu Ala Thr Pro Cys Gly Val Cys Gly Glu Ser Pro Val Gly Ser
35      40      45
Leu Leu Lys Gln His Arg Gly Arg Gly Lys Thr Trp Pro Val Gly Thr
50      55      60
Val Ser Ala Cys Arg Glu Glu Ser Glu Ala Gly Ser Leu Ser Leu Gly
65      70      75      80
Trp Ser Leu Leu Pro Ser Pro Val Gly Leu Gly Ala Val Leu Ile Leu
85      90      95
Lys Arg Cys Gly Ser Leu Cys Pro Leu Pro Gly Val Gln Gly Asn Arg
100      105      110
Arg Gly His Trp Ala Cys Phe Leu Pro Pro Asp Pro Ala Ser Pro Thr
115      120      125
Pro Cys Ile Ile Gly Asn Phe His Leu Lys Ile Phe Leu Ser Lys Val
130      135      140

```

<210> 95

<211> 425

<212> PRT

<213> Homo sapiens

<400> 95

```

Met Gly Gly Gly Asp Leu Asn Leu Lys Lys Ser Trp His Pro Gln Thr
Page 103

```

Siemens 0022 Seq Listing.txt

```

1          5          10          15
Leu Arg Asn Val Glu Lys Val Trp Lys Ala Glu Gln Lys His Glu Ala
20
Glu Arg Lys Lys Ile Glu Glu Leu Gln Arg Glu Leu Arg Glu Glu Arg
35
Ala Arg Glu Glu Met Gln Arg Tyr Ala Glu Asp Val Gly Ala Val Lys
50
Lys Lys Glu Glu Lys Leu Asp Trp Met Tyr Gln Gly Pro Gly Gly Met
65
Val Asn Arg Asp Glu Tyr Leu Leu Gly Arg Pro Ile Asp Lys Tyr Val
85
Phe Glu Lys Met Glu Glu Lys Glu Ala Gly Cys Ser Ser Glu Thr Gly
100
Leu Leu Pro Gly Ser Ile Phe Ala Pro Ser Gly Ala Asn Ser Leu Leu
115
Asp Met Ala Ser Lys Ile Arg Glu Asp Pro Leu Phe Ile Ile Arg Lys
130
Lys Glu Glu Glu Lys Lys Arg Glu Val Leu Asn Asn Pro Val Lys Met
145
Lys Lys Ile Lys Glu Leu Leu Gln Met Ser Leu Glu Lys Lys Glu Lys
165
Lys Lys Lys Lys Glu Lys Lys Lys Lys His Lys Lys His Lys His Arg
180
Ser Ser Ser Ser Asp Arg Ser Ser Ser Glu Asp Glu His Ser Ala Gly
195
Arg Ser Gln Lys Lys Met Ala Asn Ser Ser Pro Val Leu Ser Lys Val
210
Pro Gly Tyr Gly Leu Gln Val Arg Asn Ser Asp Arg Asn Gln Gly Leu
225
Gln Gly Pro Leu Thr Ala Glu Gln Lys Arg Gly His Gly Met Lys Asn
245
His Ser Arg Ser Arg Ser Ser Ser His Ser Pro Pro Arg His Ala Ser
260
Lys Lys Ser Thr Arg Glu Ala Gly Ser Arg Asp Arg Arg Ser Arg Ser
275
Leu Gly Arg Arg Ser Arg Ser Pro Arg Pro Ser Lys Leu His Asn Ser
290
Lys Val Asn Arg Arg Glu Thr Gly Gln Thr Arg Ser Pro Ser Pro Lys
305
Lys Glu Val Tyr Gln Arg Arg His Ala Pro Gly Tyr Thr Arg Lys Leu
325
Ser Ala Glu Glu Leu Glu Arg Lys Arg Gln Glu Met Met Glu Asn Ala
340
Lys Trp Arg Glu Glu Glu Arg Leu Asn Ile Leu Lys Arg His Ala Lys
355
Asp Glu Glu Arg Glu Gln Arg Leu Glu Lys Leu Asp Ser Arg Asp Gly
370
Lys Phe Ile His Arg Met Lys Leu Glu Ser Ala Ser Thr Ser Ser Leu
385
Glu Asp Arg Val Lys Arg Asn Ile Tyr Ser Leu Gln Arg Thr Ser Val
405
Ala Leu Glu Lys Asn Phe Met Lys Arg
420

```

<210> 96

<211> 394

<212> PRT

<213> Homo sapiens

Siemens 0022 Seq Listing.txt

<400> 96

```

Met Phe Ser Val Phe Glu Glu Ile Thr Arg Ile Val Val Lys Glu Met
1      5      10      15
Asp Ala Gly Gly Asp Met Ile Ala Val Arg Ser Leu Val Asp Ala Asp
      20      25      30
Arg Phe Arg Cys Phe His Leu Val Gly Glu Lys Arg Thr Phe Phe Gly
      35      40      45
Cys Arg His Tyr Thr Thr Gly Leu Thr Leu Met Asp Ile Leu Asp Thr
      50      55      60
His Gly Asp Lys Trp Leu Asp Glu Leu Asp Ser Gly Leu Gln Gly Gln
      65      70      75      80
Lys Ala Glu Phe Gln Ile Leu Asp Asn Val Asp Ser Thr Gly Glu Leu
      85      90      95
Ile Val Arg Leu Pro Lys Glu Ile Thr Ile Ser Gly Ser Phe Gln Gly
      100      105      110
Phe His His Gln Lys Ile Lys Ile Ser Glu Asn Arg Ile Ser Gln Gln
      115      120      125
Tyr Leu Ala Thr Leu Glu Asn Arg Lys Leu Lys Arg Glu Leu Pro Phe
      130      135      140
Ser Phe Arg Ser Ile Asn Thr Arg Glu Asn Leu Tyr Leu Val Thr Glu
      145      150      155      160
Thr Leu Glu Thr Val Lys Glu Glu Thr Leu Lys Ser Asp Arg Gln Tyr
      165      170      175
Lys Phe Trp Ser Gln Ile Ser Gln Gly His Leu Ser Tyr Lys His Lys
      180      185      190
Gly Gln Arg Glu Val Thr Ile Pro Pro Asn Arg Val Leu Ser Tyr Arg
      195      200      205
Val Lys Gln Leu Val Phe Pro Asn Lys Glu Thr Met Arg Lys Ser Leu
      210      215      220
Gly Ser Glu Asp Ser Arg Asn Met Lys Glu Lys Leu Glu Asp Met Glu
      225      230      235      240
Ser Val Leu Lys Asp Leu Thr Glu Glu Lys Arg Lys Asp Val Leu Asn
      245      250      255
Ser Leu Ala Lys Cys Leu Gly Lys Glu Asp Ile Arg Gln Asp Leu Glu
      260      265      270
Gln Arg Val Ser Glu Val Leu Ile Ser Gly Glu Leu His Met Glu Asp
      275      280      285
Pro Asp Lys Pro Leu Leu Ser Ser Leu Phe Asn Ala Ala Gly Val Leu
      290      295      300
Val Glu Ala Arg Ala Lys Ala Ile Leu Asp Phe Leu Asp Ala Leu Leu
      305      310      315      320
Glu Leu Ser Glu Glu Gln Gln Phe Val Ala Glu Ala Leu Glu Lys Gly
      325      330      335
Thr Leu Pro Leu Leu Lys Asp Gln Val Lys Ser Val Met Glu Gln Asn
      340      345      350
Trp Asp Glu Leu Ala Ser Ser Pro Pro Asp Met Asp Tyr Asp Pro Glu
      355      360      365
Ala Arg Ile Leu Cys Ala Leu Tyr Val Val Val Ser Ile Leu Leu Glu
      370      375      380
Leu Ala Glu Gly Pro Thr Ser Val Ser Ser
      385      390

```

<210> 97

<211> 456

<212> PRT

<213> Homo sapiens

<400> 97

Met Glu Gly Pro Glu Gly Leu Gly Arg Lys Gln Ala Cys Leu Ala Met

Siemens 0022 Seq Listing.txt

```

1          5          10          15
Leu Leu His Phe Leu Asp Thr Tyr Gln Gly Leu Leu Gln Glu Glu
20          25          30
Gly Ala Gly His Ile Ile Lys Asp Leu Tyr Leu Leu Ile Met Lys Asp
35          40          45
Glu Ser Leu Tyr Gln Gly Leu Arg Glu Asp Thr Leu Arg Leu His Gln
50          55          60
Leu Val Glu Thr Val Glu Leu Lys Ile Pro Glu Glu Asn Gln Pro Pro
65          70          75          80
Ser Lys Gln Val Lys Pro Leu Phe Arg His Phe Arg Arg Ile Asp Ser
85          90          95
Cys Leu Gln Thr Arg Val Ala Phe Arg Gly Ser Asp Glu Ile Phe Cys
100          105          110
Arg Val Tyr Met Pro Asp His Ser Tyr Val Thr Ile Arg Ser Arg Leu
115          120          125
Ser Ala Ser Val Gln Asp Ile Leu Gly Ser Val Thr Glu Lys Leu Gln
130          135          140
Tyr Ser Glu Glu Pro Ala Gly Arg Glu Asp Ser Leu Ile Leu Val Ala
145          150          155          160
Val Ser Ser Ser Gly Glu Lys Val Leu Leu Gln Pro Thr Glu Asp Cys
165          170          175
Val Phe Thr Ala Leu Gly Ile Asn Ser His Leu Phe Ala Cys Thr Arg
180          185          190
Asp Ser Tyr Glu Ala Leu Val Pro Leu Pro Glu Glu Ile Gln Val Ser
195          200          205
Pro Gly Asp Thr Glu Ile His Arg Val Glu Pro Glu Asp Val Ala Asn
210          215          220
His Leu Thr Ala Phe His Trp Glu Leu Phe Arg Cys Val His Glu Leu
225          230          235          240
Glu Phe Val Asp Tyr Val Phe His Gly Glu Arg Gly Arg Arg Glu Thr
245          250          255
Ala Asn Leu Glu Leu Leu Leu Gln Arg Cys Ser Glu Val Thr His Trp
260          265          270
Val Ala Thr Glu Val Leu Leu Cys Glu Ala Pro Gly Lys Arg Ala Gln
275          280          285
Leu Leu Lys Lys Phe Ile Lys Ile Ala Ala Leu Cys Lys Gln Asn Gln
290          295          300
Asp Leu Leu Ser Phe Tyr Ala Val Val Met Gly Leu Asp Asn Ala Ala
305          310          315          320
Val Ser Arg Leu Arg Leu Thr Trp Glu Lys Leu Pro Gly Lys Phe Lys
325          330          335
Asn Leu Phe Arg Lys Phe Glu Asn Leu Thr Asp Pro Cys Arg Asn His
340          345          350
Lys Ser Tyr Arg Glu Val Ile Ser Lys Met Lys Pro Pro Val Ile Pro
355          360          365
Phe Val Pro Leu Ile Leu Lys Asp Leu Thr Phe Leu His Glu Gly Ser
370          375          380
Lys Thr Leu Val Asp Gly Leu Val Asn Ile Glu Lys Leu His Ser Val
385          390          395          400
Ala Glu Lys Val Arg Thr Ile Arg Lys Tyr Arg Ser Arg Pro Leu Cys
405          410          415
Leu Asp Met Glu Ala Ser Pro Asn His Leu Gln Thr Lys Ala Tyr Val
420          425          430
Arg Gln Phe Gln Val Ile Asp Asn Gln Asn Leu Leu Phe Glu Leu Ser
435          440          445
Tyr Lys Leu Glu Ala Asn Ser Gln
450          455

```

<210> 98

<211> 715

<212> PRT

<213> Homo sapiens

<400> 98

```

Met Ser Gln Val Met Ser Ser Pro Leu Leu Ala Gly Gly His Ala Val
1      5      10      15
Ser Leu Ala Pro Cys Asp Glu Pro Arg Thr Leu His Pro Ala Pro
20      25      30
Ser Pro Ser Leu Pro Pro Gln Cys Ser Tyr Tyr Thr Thr Glu Gly Trp
35      40      45
Gly Ala Gln Ala Leu Met Ala Pro Val Pro Cys Met Gly Pro Pro Gly
50      55      60
Arg Leu Gln Gln Ala Pro Gln Val Glu Ala Lys Ala Thr Cys Phe Leu
65      70      75      80
Pro Ser Pro Gly Glu Lys Ala Leu Gly Thr Pro Glu Asp Leu Asp Ser
85      90      95
Tyr Ile Asp Phe Ser Leu Glu Ser Leu Asn Gln Met Ile Leu Glu Leu
100     105     110
Asp Pro Thr Phe Gln Leu Leu Pro Pro Gly Thr Gly Gly Ser Gln Ala
115     120     125
Glu Leu Ala Gln Ser Thr Met Ser Met Arg Lys Lys Glu Glu Ser Glu
130     135     140
Ala Leu Asp Ile Lys Tyr Ile Glu Val Thr Ser Ala Arg Ser Arg Cys
145     150     155     160
His Asp Trp Pro Gln His Cys Ser Ser Pro Ser Val Thr Pro Pro Phe
165     170     175
Gly Ser Pro Arg Ser Gly Gly Leu Leu Leu Ser Arg Asp Val Pro Arg
180     185     190
Glu Thr Arg Ser Ser Ser Glu Ser Leu Ile Phe Ser Gly Asn Gln Gly
195     200     205
Arg Gly His Gln Arg Pro Leu Pro Pro Ser Glu Gly Leu Ser Pro Arg
210     215     220
Pro Pro Asn Ser Pro Ser Ile Ser Ile Pro Cys Met Gly Ser Lys Ala
225     230     235     240
Ser Ser Pro His Gly Leu Gly Ser Pro Leu Val Ala Ser Pro Arg Leu
245     250     255
Glu Lys Arg Leu Gly Gly Leu Ala Pro Gln Arg Gly Ser Arg Ile Ser
260     265     270
Val Leu Ser Ala Ser Pro Val Ser Asp Val Ser Tyr Met Phe Gly Ser
275     280     285
Ser Gln Ser Leu Leu His Ser Ser Asn Ser Ser His Gln Ser Ser Ser
290     295     300
Arg Ser Leu Glu Ser Pro Ala Asn Ser Ser Ser Ser Leu His Ser Leu
305     310     315     320
Gly Ser Val Ser Leu Cys Thr Arg Pro Ser Asp Phe Gln Ala Pro Arg
325     330     335
Asn Pro Thr Leu Thr Met Gly Gln Pro Arg Thr Pro His Ser Pro Pro
340     345     350
Leu Ala Lys Glu His Ala Ser Ile Cys Pro Pro Ser Ile Thr Asn Ser
355     360     365
Met Val Asp Ile Pro Ile Val Leu Ile Asn Gly Cys Pro Glu Pro Gly
370     375     380
Ser Ser Pro Pro Gln Arg Thr Pro Gly His Gln Asn Ser Val Gln Pro
385     390     395     400
Gly Ala Ala Ser Pro Ser Asn Pro Cys Pro Ala Thr Arg Ser Asn Ser
405     410     415
Gln Thr Leu Ser Asp Ala Pro Phe Thr Thr Cys Pro Glu Gly Pro Ala
420     425     430
Arg Asp Met Gln Pro Thr Met Lys Phe Val Met Asp Thr Ser Lys Tyr
435     440     445
Trp Phe Lys Pro Asn Ile Thr Arg Glu Gln Ala Ile Glu Leu Leu Arg
450     455     460

```

Siemens 0022 Seq Listing.txt

```

Lys Glu Glu Pro Gly Ala Phe Val Ile Arg Asp Ser Ser Ser Tyr Arg
465      470      475
Gly Ser Phe Gly Leu Ala Leu Lys Val Gln Glu Val Pro Ala Ser Ala
      485      490      495
Gln Asn Arg Pro Gly Glu Asp Ser Asn Asp Leu Ile Arg His Phe Leu
      500      505      510
Ile Glu Ser Ser Ala Lys Gly Val His Leu Lys Gly Ala Asp Glu Glu
      515      520      525
Pro Tyr Phe Gly Ser Leu Ser Ala Phe Val Cys Gln His Ser Ile Met
      530      535      540
Ala Leu Ala Leu Pro Cys Lys Leu Thr Ile Pro Gln Arg Glu Leu Gly
545      550      555      560
Gly Ala Asp Gly Ala Ser Asp Ser Thr Asp Ser Pro Ala Ser Cys Gln
      565      570      575
Lys Lys Ser Ala Gly Cys His Thr Leu Tyr Leu Ser Ser Val Ser Val
      580      585      590
Glu Thr Leu Thr Gly Ala Leu Ala Val Gln Lys Ala Ile Ser Thr Thr
      595      600      605
Phe Glu Arg Asp Ile Leu Pro Thr Pro Thr Val Val His Phe Glu Val
      610      615      620
Thr Glu Gln Gly Ile Thr Leu Thr Asp Val Gln Arg Lys Val Phe Phe
625      630      635      640
Arg Arg His Tyr Pro Leu Thr Thr Leu Arg Phe Cys Gly Met Asp Pro
      645      650      655
Glu Gln Arg Lys Trp Gln Lys Tyr Cys Lys Pro Ser Trp Ile Phe Gly
      660      665      670
Phe Val Ala Lys Ser Gln Thr Glu Pro Gln Glu Asn Val Cys His Leu
      675      680      685
Phe Ala Glu Tyr Asp Met Val Gln Pro Ala Ser Gln Val Ile Gly Leu
      690      695      700
Val Thr Ala Leu Leu Gln Asp Ala Glu Arg Met
705      710      715

```

<210> 99

<211> 35

<212> DNA

<213> Artificial sequence

<220>

<223> PCR primer

<400> 99

ccatatataa aaccactgtc ctgtcctttg tggct

35

<210> 100

<211> 26

<212> DNA

<213> Artificial sequence

<220>

<223> PCR primer

Siemens 0022 Seq Listing.txt

<400> 100
 ccccatctg tctgtctata ttgtc 26

<210> 101

<211> 22

<212> DNA

<213> Artificial sequence

<220>

<223> PCR primer

<400> 101
 tgcctacgct gacgactatg tg 22

<210> 102

<211> 25

<212> DNA

<213> Artificial sequence

<220>

<223> PCR primer

<400> 102
 ttggttttc tacaactggt gctat 25

<210> 103

<211> 19

<212> DNA

<213> Artificial sequence

<220>

<223> PCR primer

<400> 103
 gggctccaca caccagatg 19

<210> 104

<211> 21

<212> DNA

<213> Artificial sequence

Siemens 0022 Seq Listing.txt

<220>

<223> PCR primer

<400> 104

acgctctgag caccctctac a

21

<210> 105

<211> 31

<212> DNA

<213> Artificial sequence

<220>

<223> PCR primer

<400> 105

tgtcacaggg actgaaaacc tctcctcatg t

31

<210> 106

<211> 17

<212> DNA

<213> Artificial sequence

<220>

<223> PCR primer

<400> 106

cccaaggcca cgagctt

17

<210> 107

<211> 24

<212> DNA

<213> Artificial sequence

<220>

<223> PCR primer

<400> 107

tggtgctctc ttaacgaatc gaaa

24

<210> 108

<211> 29

<212> DNA

<213> Artificial sequence

<220>

<223> PCR primer

<400> 108
ctggtcaaac aaactctctg aaccctcc

29

<210> 109

<211> 20

<212> DNA

<213> Artificial sequence

<220>

<223> PCR primer

<400> 109
tggtgaggaa aagcggacat

20

<210> 110

<211> 21

<212> DNA

<213> Artificial sequence

<220>

<223> PCR primer

<400> 110
ctggcttgga ggacagtga g

21

<210> 111

<211> 24

<212> DNA

<213> Artificial sequence

<220>

<223> PCR primer

<400> 111

ccaagccctc cccatcccat gtat

24

<210> 112

<211> 21

<212> DNA

<213> Artificial sequence

<220>

<223> PCR primer

<400> 112
gaggtgtcgt accgcgttct a

21

<210> 113

<211> 21

<212> DNA

<213> Artificial sequence

<220>

<223> PCR primer

<400> 113
ccgttctgct cttccctgct t

21

<210> 114

<211> 23

<212> DNA

<213> Artificial sequence

<220>

<223> PCR primer

<400> 114
ccagacccgc ttcactgacc tgc

23

<210> 115

<211> 20

<212> DNA

<213> Artificial sequence

<220>

<223> PCR primer

<400> 115
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Siemens 0022 Seq Listing.txt

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Siemens 0022 Seq Listing.txt

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0022

Siemens 0022 Seq Listing.txt

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Siemens 0022 Seq Listing.txt

<213> Homo sapiens

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Siemens 0022 Seq Listing.txt

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<212> DNA

<213> Homo sapiens

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Siemens 0022 Seq Listing.txt

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<211> 754

<212> DNA

<213> Homo sapiens

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<211> 749

<212> DNA

<213> Homo sapiens

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Siemens 0022 Seq Listing.txt

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<210> 323

<211> 440

<212> DNA

<213> Homo sapiens

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<210> 324

<211> 614

<212> DNA

<213> Homo sapiens

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<210> 325

<211> 1193

<212> DNA

<213> Homo sapiens

<400> 325

Siemens 0022 Seq Listing.txt

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gccagccaag ctgtgtgag accagctgct gccagccacg cagctgccag actagcttct 180
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<210> 326

<211> 986

<212> DNA

<213> Homo sapiens

<400> 326

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<210> 327

<211> 903

<212> DNA

<213> Homo sapiens

<400> 327

Siemens 0022 Seq Listing.txt

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<210> 328

<211> 615

<212> DNA

<213> Homo sapiens

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agtctaactc ctatatcatg ttgtctgctt tctaataaac tcaatactcc taccataaaa 600
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<210> 329

<211> 812

<212> DNA

<213> Homo sapiens

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<400> 329
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Siemens 0022 Seq Listing.txt

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aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aa			812

<210> 330

<211> 601

<212> DNA

<213> Homo sapiens

<400> 330

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<210> 331

<211> 1202

<212> DNA

<213> Homo sapiens

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Siemens 0022 Seq Listing.txt

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<211> 1219

<212> DNA

<213> Homo sapiens

<400> 332

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<211> 1077

<212> DNA

<213> Homo sapiens

<400> 333

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Siemens 0022 Seq Listing.txt

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<210> 334

<211> 942

<212> DNA

<213> Homo sapiens

<400> 334

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cagccagtc	ctggaaaaat	gaacacttcc	ctgccagttt	gtctcatgtg	gcattcagag	720
tgacattca	gctcttctag	gaaatgacag	acaatcacat	tcattataat	atgttatgcc	780
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tgatgatctc	atataatatt	gttttcatgt	attaataaac	agccacttcc	ctaaaaaaaa	900
aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aa		942

<210> 335

<211> 924

<212> DNA

<213> Homo sapiens

<400> 335

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<210> 336

<211> 1099

Siemens 0022 Seq Listing.txt

<212> DNA

<213> Homo sapiens

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<400> 336
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aaaaaaaaa aaaaaaaaaa 1099

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<210> 337

<211> 782

<212> DNA

<213> Homo sapiens

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<400> 337
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ccccatgttc cctgaattga aatatttgct ctctaccata atttatcaca tggagctatt 720
cctctatctt aaataaattt taatttttga ggcattgcaa taaaaaaaaa aaaaaaaaaa 782
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<210> 338

<211> 754

<212> DNA

<213> Homo sapiens

Siemens 0022 Seq Listing.txt

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tctcttccca gcattcagac ctcagatgca tgatgcagtt agactaagcc tctaagtctc 660
tgactgttat gcttgatttg accttcaaaa ttacatatta actgttcttc aataaatatt 720
atcttaatat cagtaaaaaa aaaaaaaaaa aaaa 754
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<210> 339

<211> 1042

<212> DNA

<213> Homo sapiens

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aaaaaaaaaa aaaaaaaaaa aa 1042
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<210> 340

<211> 1020

<212> DNA

<213> Homo sapiens

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<400> 340
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Siemens 0022 Seq Listing.txt

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cccacaagtg	tttgtctgcc	tggttgccta	aaccagagct	gtggctccaa	ctgctgccag	420
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<210> 341

<211> 1007

<212> DNA

<213> Homo sapiens

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<210> 342

<211> 953

<212> DNA

<213> Homo sapiens

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	cctcctgctg	tgtgtctagc	tgctgccagc	cttgctgccg	cccagcttgc	tgtcaaaaaca	180
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Siemens 0022 Seq Listing.txt

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<210> 343

<211> 990

<212> DNA

<213> Homo sapiens

<400> 343

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<210> 344

<211> 725

<212> DNA

<213> Homo sapiens

<400> 344

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Siemens_0022 Seq Listing.txt

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<210> 345

<211> 1230

<212> DNA

<213> Homo sapiens

<400> 345						
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<210> 346

<211> 815

<212> DNA

<213> Homo sapiens

<400> 346						
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Siemens 0022 Seq Listing.txt

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<213> Homo sapiens

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Siemens 0022 Seq Listing.txt

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<213> Homo sapiens

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Siemens 0022 Seq Listing.txt

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<213> Homo sapiens

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Siemens 0022 Seq Listing.txt

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Siemens 0022 Seq Listing.txt

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<211> 1986

<212> DNA

<213> Homo sapiens

<400> 352

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Siemens 0022 Seq Listing.txt

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<212> DNA

<213> Homo sapiens

<400> 353

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Siemens 0022 Seq Listing.txt

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<210> 354

<211> 1708

<212> DNA

<213> Homo sapiens

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<210> 355

<211> 2051

<212> DNA

Siemens 0022 Seq Listing.txt

<213> Homo sapiens

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<210> 356

<211> 1404

<212> DNA

<213> Homo sapiens

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Siemens 0022 Seq Listing.txt

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<210> 357

<211> 1693

<212> DNA

<213> Homo sapiens

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<211> 1709

Siemens 0022 Seq Listing.txt

<212> DNA

<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

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Siemens 0022 Seq Listing.txt

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<213> Homo sapiens

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<211> 1634

<212> DNA

<213> Homo sapiens

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<211> 1688

<212> DNA

<213> Homo sapiens

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Siemens 0022 Seq Listing.txt

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<210> 363

<211> 1512

<212> DNA

<213> Homo sapiens

<400> 363

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Siemens 0022 Seq Listing.txt

<211> 1753

<212> DNA

<213> Homo sapiens

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Siemens 0022 Seq Listing.txt

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<211> 1925

<212> DNA

Siemens 0022 Seq Listing.txt

<213> Homo sapiens

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<211> 2108

<212> DNA

<213> Homo sapiens

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Siemens 0022 Seq Listing.txt

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<211> 1883

<212> DNA

<213> Homo sapiens

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Siemens 0022 Seq Listing.txt

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<213> Homo sapiens

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Siemens 0022 Seq Listing.txt

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<211> 2681

<212> DNA

<213> Homo sapiens

<400> 373

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Siemens 0022 Seq Listing.txt

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<213> Homo sapiens

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Siemens 0022 Seq Listing.txt

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Siemens 0022 Seq Listing.txt

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Siemens 0022 Seq Listing.txt

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<212> DNA

<213> Homo sapiens

Siemens 0022 Seq Listing.txt

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<211> 1986

<212> DNA

<213> Homo sapiens

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Siemens 0022 Seq Listing.txt

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Siemens 0022 Seq Listing.txt

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<212> DNA

<213> Homo sapiens

<400> 378

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Siemens 0022 Seq Listing.txt

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<212> DNA

<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

<400> 380

Siemens 0022 Seq Listing.txt

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<211> 2856

<212> DNA

<213> Homo sapiens

<400> 381

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Siemens 0022 Seq Listing.txt

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<211> 1985

<212> DNA

<213> Homo sapiens

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Siemens 0022 Seq Listing.txt

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Siemens 0022 Seq Listing.txt

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Siemens 0022 Seq Listing.txt

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<212> DNA

<213> Homo sapiens

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Siemens 0022 Seq Listing.txt

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<213> Homo sapiens

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Siemens 0022 Seq Listing.txt

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<211> 1752

<212> DNA

<213> Homo sapiens

<400> 388

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Siemens 0022 Seq Listing.txt

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<211> 1412

<212> DNA

<213> Homo sapiens

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<210> 390

<211> 2516

<212> DNA

<213> Homo sapiens

Siemens 0022 Seq Listing.txt

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<210> 391

<211> 3291

<212> DNA

<213> Homo sapiens

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Siemens 0022 Seq Listing.txt

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<210> 392

<211> 1283

<212> DNA

<213> Homo sapiens

Siemens 0022 Seq Listing.txt

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<210> 393

<211> 331

<212> PRT

<213> Homo sapiens

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35 40 45
Gly Leu Thr Ser Pro His Pro Thr Pro Pro Pro Pro Arg Arg
50 55 60
Ser Leu Ser Leu Leu Asp Asp Ile Ser Gly Thr Leu Pro Thr Ser Val
65 70 75 80
Leu Val Ala Pro Met Gly Ser Ser Leu Gln Ser Phe Pro Leu Pro Pro
85 90 95
Pro Pro Pro Pro His Ala Pro Asp Ala Phe Pro Arg Ile Ala Pro Ile
100 105 110
Arg Ala Ala Glu Ser Leu His Ser Gln Pro Pro Gln His Leu Gln Cys
115 120 125
Pro Leu Tyr Arg Pro Asp Ser Ser Ser Phe Ala Ala Ser Leu Arg Glu
130 135 140
Leu Glu Lys Cys Gly Trp Tyr Trp Gly Pro Met Asn Trp Glu Asp Ala
145 150 155 160
Glu Met Lys Leu Lys Gly Lys Pro Asp Gly Ser Phe Leu Val Arg Asp
165 170 175
Ser Ser Asp Pro Arg Tyr Ile Leu Ser Leu Ser Phe Arg Ser Gln Gly
180 185 190
Ile Thr His His Thr Arg Met Glu His Tyr Arg Gly Thr Phe Ser Leu
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Trp Cys His Pro Lys Phe Glu Asp Arg Cys Gln Ser Val Val Glu Phe
210 215 220

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Siemens 0022 Seq Listing.txt

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	Tyr	Pro	Val	Ser	Arg	Phe	Ser	Asn	Val	Lys	Ser	Leu	Gln	His	Leu	Cys
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	Arg	Phe	Arg	Ile	Arg	Gln	Leu	Val	Arg	Ile	Asp	His	Ile	Pro	Asp	Leu
		275						280					285			
	Pro	Leu	Pro	Lys	Pro	Leu	Ile	Ser	Tyr	Ile	Arg	Lys	Phe	Tyr	Tyr	Tyr
		290					295					300				
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<210> 394

<211> 306

<212> PRT

<213> Homo sapiens

<400> 394

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	Thr	Ala	Gly	Ile	Phe	Asp	Ala	Tyr	Val	Pro	Pro	Glu	Gly	Asp	Ala	Arg
				85					90					95		
	Ile	Ser	Ser	Leu	Ser	Lys	Glu	Gly	Leu	Ile	Glu	Arg	Thr	Glu	Arg	Met
			100						105					110		
	Lys	Lys	Thr	Met	Ala	Ser	Gln	Val	Ser	Ile	Arg	Arg	Ile	Lys	Asp	Tyr
			115					120					125			
	Asp	Ala	Asn	Phe	Lys	Ile	Lys	Asp	Phe	Pro	Glu	Lys	Ala	Lys	Asp	Ile
		130					135					140				
	Phe	Ile	Glu	Ala	His	Leu	Cys	Leu	Asn	Asn	Ser	Asp	His	Asp	Arg	Leu
145					150						155					160
	His	Thr	Leu	Val	Thr	Glu	His	Cys	Phe	Pro	Asp	Met	Thr	Trp	Asp	Ile
				165						170					175	
	Lys	Tyr	Lys	Thr	Val	Arg	Trp	Ser	Phe	Val	Glu	Ser	Leu	Glu	Pro	Ser
			180						185					190		
	His	Val	Val	Gln	Val	Arg	Cys	Ser	Ser	Met	Met	Asn	Gln	Gly	Asn	Val
		195						200					205			
	Tyr	Gly	Gln	Ile	Thr	Val	Arg	Met	His	Thr	Arg	Gln	Thr	Leu	Ala	Ile
		210					215					220				
	Tyr	Asp	Arg	Phe	Gly	Arg	Leu	Met	Tyr	Gly	Gln	Glu	Asp	Val	Pro	Lys
225					230						235					240
	Asp	Val	Leu	Glu	Tyr	Val	Val	Phe	Glu	Lys	Gln	Leu	Thr	Asn	Pro	Tyr
				245						250					255	
	Gly	Ser	Trp	Arg	Met	His	Thr	Lys	Ile	Val	Pro	Pro	Trp	Ala	Pro	Pro
			260						265					270		
	Lys	Gln	Pro	Ile	Leu	Lys	Thr	Val	Met	Ile	Pro	Gly	Pro	Gln	Leu	Lys

Siemens 0022 Seq Listing.txt

275
 Pro Glu Glu Glu Tyr Glu Glu Ala Gln Gly Glu Ala Gln Lys Pro Gln
 290
 Leu Ala
 305

<210> 395

<211> 557

<212> PRT

<213> Homo sapiens

<400> 395

Met Val Ser Lys Leu Thr Ser Leu Gln Gln Glu Leu Leu Ser Ala Leu
 1 5 10 15
 Leu Ser Ser Gly Val Thr Lys Glu Val Leu Val Gln Ala Leu Glu Glu
 20 25 30
 Leu Leu Pro Ser Pro Asn Phe Gly Val Lys Leu Glu Thr Leu Pro Leu
 35 40 45
 Ser Pro Gly Ser Gly Ala Glu Pro Asp Thr Lys Pro Val Phe His Thr
 50 55 60
 Leu Thr Asn Gly His Ala Lys Gly Arg Leu Ser Gly Asp Glu Gly Ser
 65 70 75 80
 Glu Asp Gly Asp Asp Tyr Asp Thr Pro Pro Ile Leu Lys Glu Leu Gln
 85 90 95
 Ala Leu Asn Thr Glu Glu Ala Ala Glu Gln Arg Ala Glu Val Asp Arg
 100 105 110
 Met Leu Ser Glu Asp Pro Trp Arg Ala Ala Lys Met Ile Lys Gly Tyr
 115 120 125
 Met Gln Gln His Asn Ile Pro Gln Arg Glu Val Val Asp Val Thr Gly
 130 135 140
 Leu Asn Gln Ser His Leu Ser Gln His Leu Asn Lys Gly Thr Pro Met
 145 150 155 160
 Lys Thr Gln Lys Arg Ala Ala Leu Tyr Thr Trp Tyr Val Arg Lys Gln
 165 170 175
 Arg Glu Ile Leu Arg Gln Phe Asn Gln Thr Val Gln Ser Ser Gly Asn
 180 185 190
 Met Thr Asp Lys Ser Ser Gln Asp Gln Leu Leu Phe Leu Phe Pro Glu
 195 200 205
 Phe Ser Gln Gln Ser His Gly Pro Gly Gln Ser Asp Asp Ala Cys Ser
 210 215 220
 Glu Pro Thr Asn Lys Lys Met Arg Arg Asn Arg Phe Lys Trp Gly Pro
 225 230 235 240
 Ala Ser Gln Gln Ile Leu Tyr Gln Ala Tyr Asp Arg Gln Lys Asn Pro
 245 250 255
 Ser Lys Glu Glu Arg Glu Ala Leu Val Glu Glu Cys Asn Arg Ala Glu
 260 265 270
 Cys Leu Gln Arg Gly Val Ser Pro Ser Lys Ala His Gly Leu Gly Ser
 275 280 285
 Asn Leu Val Thr Glu Val Arg Val Tyr Asn Trp Phe Ala Asn Arg Arg
 290 295 300
 Lys Glu Glu Ala Phe Arg Gln Lys Leu Ala Met Asp Ala Tyr Ser Ser
 305 310 315 320
 Asn Gln Thr His Ser Leu Asn Pro Leu Leu Ser His Gly Ser Pro His
 325 330 335
 His Gln Pro Ser Ser Pro Pro Asn Lys Leu Ser Gly Val Arg Tyr
 340 345 350
 Ser Gln Gln Gly Asn Asn Glu Ile Thr Ser Ser Ser Thr Ile Ser His

Siemens 0022 Seq Listing.txt

```

355
His Gly Asn Ser Ala Met Val Thr Ser Gln Ser Val Leu Gln Gln Val
370 375 380
Ser Pro Ala Ser Leu Asp Pro Gly His Asn Leu Leu Ser Pro Asp Gly
385 390 395 400
Lys Met Ile Ser Val Ser Gly Gly Gly Leu Pro Pro Val Ser Thr Leu
405 410 415
Thr Asn Ile His Ser Leu Ser His His Asn Pro Gln Gln Ser Gln Asn
420 425 430
Leu Ile Met Thr Pro Leu Ser Gly Val Met Ala Ile Ala Gln Ser Leu
435 440 445
Asn Thr Ser Gln Ala Gln Ser Val Pro Val Ile Asn Ser Val Ala Gly
450 455 460
Ser Leu Ala Ala Leu Gln Pro Val Gln Phe Ser Gln Gln Leu His Ser
465 470 475 480
Pro His Gln Gln Pro Leu Met Gln Gln Ser Pro Gly Ser His Met Ala
485 490 495
Gln Gln Pro Phe Met Ala Ala Val Thr Gln Leu Gln Asn Ser His Met
500 505 510
Tyr Ala His Lys Gln Glu Pro Pro Gln Tyr Ser His Thr Ser Arg Phe
515 520 525
Pro Ser Ala Met Val Val Thr Asp Thr Ser Ser Ile Ser Thr Leu Thr
530 535 540
Asn Met Ser Ser Ser Lys Gln Cys Pro Leu Gln Ala Trp
545 550 555

```

<210> 396

<211> 491

<212> PRT

<213> Homo sapiens

<400> 396

```

Met Ser Ser Val Glu Ala Lys Ile Glu Asp Lys Lys Val Gln Arg Glu
1 5 10 15
Ser Lys Leu Thr Ser Gly Lys Leu Glu Asn Leu Arg Lys Glu Lys Ile
20 25 30
Asn Phe Leu Arg Asn Lys His Lys Ile His Val Gln Gly Thr Asp Leu
35 40 45
Pro Asp Pro Ile Ala Thr Phe Gln Gln Leu Asp Gln Glu Tyr Lys Ile
50 55 60
Asn Ser Arg Leu Leu Gln Asn Ile Leu Asp Ala Gly Phe Gln Met Pro
65 70 75 80
Thr Pro Ile Gln Met Gln Ala Ile Pro Val Met Leu His Gly Arg Glu
85 90 95
Leu Leu Ala Ser Ala Pro Thr Gly Ser Gly Lys Thr Leu Ala Phe Ser
100 105 110
Ile Pro Ile Leu Met Gln Leu Lys Gln Pro Ala Asn Lys Gly Phe Arg
115 120 125
Ala Leu Ile Ile Ser Pro Thr Arg Glu Leu Ala Ser Gln Ile His Arg
130 135 140
Glu Leu Ile Lys Ile Ser Glu Gly Thr Gly Phe Arg Ile His Met Ile
145 150 155 160
His Lys Ala Ala Val Ala Ala Lys Lys Phe Gly Pro Lys Ser Ser Lys
165 170 175
Lys Phe Asp Ile Leu Val Thr Thr Pro Asn Arg Leu Ile Tyr Leu Leu
180 185 190
Lys Gln Asp Pro Pro Gly Ile Asp Leu Ala Ser Val Glu Trp Leu Val

```


Siemens 0022 Seq Listing.txt

```

195
Val Asp Glu Ser Asp Lys Leu 200 Phe Glu Asp Gly Lys 205 Thr Gly Phe Arg
210 215 220
Asp Gln Leu Ala Ser Ile Phe Leu Ala Cys Thr Ser His Lys Val Arg
225 230 235 240
Arg Ala Met Phe Ser Ala Thr Phe Ala Tyr Asp Val Glu Gln Trp Cys
245 250 255
Lys Leu Asn Leu Asp Asn Val Ile Ser Val Ser Ile Gly Ala Arg Asn
260 265 270
Ser Ala Val Glu Thr Val Glu Gln Glu Leu Leu Phe Val Gly Ser Glu
275 280 285
Thr Gly Lys Leu Leu Ala Val Arg Glu Leu Val Lys Lys Gly Phe Asn
290 295 300
Pro Pro Val Leu Val Phe Val Gln Ser Ile Glu Arg Ala Lys Glu Leu
305 310 315 320
Phe His Glu Leu Ile Tyr Glu Gly Ile Asn Val Asp Val Ile His Ala
325 330 335
Glu Arg Thr Gln Gln Gln Arg Asp Asn Thr Val His Ser Phe Arg Ala
340 345 350
Gly Lys Ile Trp Val Leu Ile Cys Thr Ala Leu Leu Ala Arg Gly Ile
355 360 365
Asp Phe Lys Gly Val Asn Leu Val Ile Asn Tyr Asp Phe Pro Thr Ser
370 375 380
Ser Val Glu Tyr Ile His Arg Ile Gly Arg Thr Gly Arg Ala Gly Asn
385 390 395 400
Lys Gly Lys Ala Ile Thr Phe Phe Thr Glu Asp Asp Lys Pro Leu Leu
405 410 415
Arg Ser Val Ala Asn Val Ile Gln Gln Ala Gly Cys Pro Val Pro Glu
420 425 430
Tyr Ile Lys Gly Phe Gln Lys Leu Leu Ser Lys Gln Lys Lys Met
435 440 445
Ile Lys Lys Pro Leu Glu Arg Glu Ser Ile Ser Thr Thr Pro Lys Cys
450 455 460
Phe Leu Glu Lys Ala Lys Asp Lys Gln Arg Lys Val Thr Gly Gln Asn
465 470 475 480
Ser Lys Lys Lys Val Ala Leu Glu Asp Lys Ser
485 490

```

<210> 397

<211> 424

<212> PRT

<213> Homo sapiens

<400> 397

```

Met Asp Phe Ser Arg Arg Ser Phe His Arg Ser Leu Ser Ser Ser Leu
1 5 10 15
Gln Ala Pro Val Val Ser Thr Val Gly Met Gln Arg Leu Gly Thr Thr
20 25 30
Pro Ser Val Tyr Gly Gly Ala Gly Arg Gly Ile Arg Ile Ser Asn
35 40 45
Ser Arg His Thr Val Asn Tyr Gly Ser Asp Leu Thr Gly Gly Gly Asp
50 55 60
Leu Phe Val Gly Asn Glu Lys Met Ala Met Gln Asn Leu Asn Asp Arg
65 70 75 80
Leu Ala Ser Tyr Leu Glu Lys Val Arg Thr Leu Glu Gln Ser Asn Ser
85 90 95
Lys Leu Glu Val Gln Ile Lys Gln Trp Tyr Glu Thr Asn Ala Pro Arg

```

Siemens 0022 Seq Listing.txt

```

100      105      110
Ala Gly Arg Asp Tyr Ser Ala Tyr Tyr Arg Gln Ile Glu Glu Leu Arg
115
Ser Gln Ile Lys Asp Ala Gln Leu Gln Asn Ala Arg Cys Val Leu Gln
130
Ile Asp Asn Ala Lys Leu Ala Ala Glu Asp Phe Arg Leu Lys Tyr Glu
145
Thr Glu Arg Gly Ile Arg Leu Thr Val Glu Ala Asp Leu Gln Gly Leu
165
Asn Lys Val Phe Asp Asp Leu Thr Leu His Lys Thr Asp Leu Glu Ile
180
Gln Ile Glu Glu Leu Asn Lys Asp Leu Ala Leu Leu Lys Lys Glu His
195
Gln Glu Glu Val Asp Gly Leu His Lys His Leu Gly Asn Thr Val Asn
210
Val Glu Val Asp Ala Ala Pro Gly Leu Asn Leu Gly Val Ile Met Asn
225
Glu Met Arg Gln Lys Tyr Glu Val Met Ala Gln Lys Asn Leu Gln Glu
245
Ala Lys Glu Gln Phe Glu Arg Gln Thr Ala Val Leu Gln Gln Gln Val
260
Thr Val Asn Thr Glu Glu Leu Lys Gly Thr Glu Val Gln Leu Thr Glu
275
Leu Arg Arg Thr Ser Gln Ser Leu Glu Ile Glu Leu Gln Ser His Leu
290
Ser Met Lys Glu Ser Leu Glu His Thr Leu Glu Glu Thr Lys Ala Arg
305
Tyr Ser Ser Gln Leu Ala Asn Leu Gln Ser Leu Leu Ser Ser Leu Glu
325
Ala Gln Leu Met Gln Ile Arg Ser Asn Met Glu Arg Gln Asn Asn Glu
340
Tyr His Ile Leu Leu Asp Ile Lys Thr Arg Leu Glu Gln Glu Ile Ala
355
Thr Tyr Arg Arg Leu Leu Glu Gly Glu Asp Val Lys Thr Thr Glu Tyr
370
Gln Leu Ser Thr Leu Glu Arg Asp Ile Lys Lys Thr Arg Lys Ile
385
Lys Thr Val Val Gln Glu Val Val Asp Gly Lys Val Val Ser Ser Glu
405
Val Lys Glu Val Glu Glu Asn Ile
420

```

<210> 398

<211> 209

<212> PRT

<213> Homo sapiens

<400> 398

```

Met Glu Lys His His Val Pro Ser Asp Phe Asn Val Asn Val Lys Val
1      5      10      15
Asp Thr Gly Pro Arg Glu Asp Leu Ile Lys Val Leu Glu Asp Met Arg
20
Gln Glu Tyr Glu Leu Ile Ile Lys Lys Lys His Arg Asp Leu Asp Thr
35
Trp Tyr Lys Glu Gln Ser Ala Ala Met Ser Gln Glu Ala Ala Ser Pro
50
Ala Thr Val Gln Ser Arg Gln Gly Asp Ile His Glu Leu Lys Arg Thr
55      60

```

Siemens 0022 Seq Listing.txt

```

65      70      75      80
Phe Gln Ala Leu Glu Ile Asp Leu Gln Thr Gln Tyr Ser Thr Lys Ser
85
Ala Leu Glu Asn Met Leu Ser Glu Thr Gln Ser Arg Tyr Ser Cys Lys
100
Leu Gln Asp Met Gln Glu Ile Ile Ser His Tyr Glu Glu Leu Thr
115
Gln Leu Arg His Glu Leu Glu Arg Gln Asn Asn Glu Tyr Gln Val Leu
130
Leu Gly Ile Lys Thr His Leu Glu Lys Glu Ile Thr Thr Tyr Arg Arg
145
Leu Leu Glu Gly Glu Ser Glu Gly Thr Arg Glu Glu Ser Lys Ser Ser
165
Met Lys Val Ser Ala Thr Pro Lys Ile Lys Ala Ile Thr Gln Glu Thr
180
Ile Asn Gly Arg Leu Val Leu Cys Gln Val Asn Glu Ile Gln Lys His
195
Ala
200
205

```

<210> 399

<211> 98

<212> PRT

<213> Homo sapiens

<400> 399

```

Met Asp Cys Cys Ala Ser Arg Gly Cys Ser Val Pro Thr Gly Pro Ala
1      5      10      15
Thr Thr Ile Cys Ser Ser Asp Lys Ser Cys Arg Cys Gly Val Cys Leu
20
Pro Ser Thr Cys Pro His Thr Val Trp Leu Leu Glu Pro Thr Cys Cys
35
Asp Asn Cys Pro Pro Pro Cys His Ile Pro Gln Pro Cys Val Pro Thr
50
Cys Phe Leu Leu Asn Ser Cys Gln Pro Thr Pro Gly Leu Glu Thr Leu
65
Asn Leu Thr Thr Phe Thr Gln Pro Cys Cys Glu Pro Cys Leu Pro Arg
85
Gly Cys
90
95

```

<210> 400

<211> 98

<212> PRT

<213> Homo sapiens

<400> 400

```

Met Asp Cys Cys Ala Ser Arg Ser Cys Ser Val Pro Thr Gly Pro Ala
1      5      10      15
Thr Thr Ile Cys Ser Ser Asp Lys Ser Cys Arg Cys Gly Val Cys Leu
20
25
30

```

Siemens 0022 Seq Listing.txt

```

Pro Ser Thr Cys Pro His Thr Val Trp Leu Leu Glu Pro Ile Cys Cys
      35      40      45
Asp Asn Cys Pro Pro Pro Cys His Ile Pro Gln Pro Cys Val Pro Thr
      50      55      60
Cys Phe Leu Leu Asn Ser Cys Gln Pro Thr Pro Gly Leu Glu Thr Leu
      65      70      75      80
Asn Leu Thr Thr Phe Thr Gln Pro Cys Cys Glu Pro Cys Leu Pro Arg
      85      90      95
Gly Cys

```

<210> 401

<211> 79

<212> PRT

<213> Homo sapiens

<400> 401

```

Met Ser Cys Cys Asp Ser Tyr Leu Gln Gly Cys Cys Ser Val Pro Thr
1      5      10      15
Gly Leu Ala Thr Thr Ile Cys Pro Ser Asp Ile Ser Cys Gln Cys Glu
      20      25      30
Val Cys Leu Pro Ser Thr Cys Pro His Glu Ile Ser Leu Leu Gln Pro
      35      40      45
Thr Cys Cys Glu Pro Gly Pro Cys Leu Ala Ala Cys Leu Thr Pro Met
      50      55      60
Cys His Pro Val Asp Cys Ser Thr Asn Ala Thr Gln Leu Gln Pro
      65      70      75

```

<210> 402

<211> 98

<212> PRT

<213> Homo sapiens

<400> 402

```

Met Tyr Cys Cys Ala Leu Arg Ser Cys Ser Val Pro Thr Gly Pro Ala
1      5      10      15
Thr Thr Phe Cys Ser Phe Asp Lys Ser Cys Arg Cys Gly Val Cys Leu
      20      25      30
Pro Ser Thr Cys Pro His Glu Ile Ser Leu Leu Gln Pro Ile Cys Cys
      35      40      45
Asp Thr Cys Pro Pro Pro Cys Cys Lys Pro Asp Thr Tyr Val Pro Thr
      50      55      60
Cys Trp Leu Leu Asn Asn Cys His Pro Thr Pro Gly Leu Ser Gly Ile
      65      70      75      80
Asn Leu Thr Thr Tyr Val Gln Pro Gly Cys Glu Ser Pro Cys Glu Pro
      85      90      95
Arg Cys

```

<210> 403

Siemens 0022 Seq Listing.txt

<211> 174

<212> PRT

<213> Homo sapiens

<400> 403

```

Met Thr Cys Cys Gln Thr Ser Phe Cys Gly Tyr Pro Ser Phe Ser Ile
1      5      10      15
Ser Gly Thr Cys Gly Ser Ser Cys Cys Gln Pro Ser Cys Cys Glu Thr
20      25      30
Ser Cys Cys Gln Pro Arg Ser Cys Gln Thr Ser Phe Cys Gly Phe Pro
35      40      45
Ser Phe Ser Thr Ser Gly Thr Cys Ser Ser Ser Cys Cys Gln Pro Ser
50      55      60
Cys Cys Glu Thr Ser Cys Cys Gln Pro Ser Cys Cys Glu Thr Ser Cys
65      70      75      80
Cys Gln Pro Ser Cys Cys Gln Ile Ser Ser Cys Gly Thr Gly Cys Gly
85      90      95
Ile Gly Gly Gly Ile Ser Tyr Gly Gln Glu Gly Ser Ser Gly Ala Val
100     105     110
Ser Thr Arg Ile Arg Trp Cys Arg Pro Asp Ser Arg Val Glu Gly Thr
115     120     125
Tyr Leu Pro Pro Cys Cys Val Val Ser Cys Thr Pro Pro Ser Cys Cys
130     135     140
Gln Leu His His Ala Gln Ala Ser Cys Cys Arg Pro Ser Tyr Cys Gly
145     150     155     160
Gln Ser Cys Cys Arg Pro Val Cys Cys Cys Glu Pro Thr Cys
165     170

```

<210> 404

<211> 167

<212> PRT

<213> Homo sapiens

<400> 404

```

Met Thr Cys Cys Gln Thr Ser Phe Cys Gly Tyr Pro Ser Cys Ser Thr
1      5      10      15
Ser Gly Thr Cys Gly Ser Ser Cys Cys Gln Pro Ser Cys Cys Glu Thr
20      25      30
Ser Cys Cys Gln Pro Ser Cys Cys Gln Thr Ser Phe Cys Gly Phe Pro
35      40      45
Ser Phe Ser Thr Ser Gly Thr Cys Ser Ser Ser Cys Cys Gln Pro Ser
50      55      60
Cys Cys Glu Thr Ser Cys Cys Gln Pro Ser Cys Cys Gln Thr Ser Ser
65      70      75      80
Cys Gly Thr Gly Cys Gly Ile Gly Gly Gly Ile Gly Tyr Gly Gln Glu
85      90      95
Gly Ser Ser Gly Ala Val Ser Thr Arg Ile Arg Trp Cys Arg Pro Asp
100     105     110
Cys Arg Val Glu Gly Thr Cys Leu Pro Pro Cys Cys Val Val Ser Cys
115     120     125
Thr Pro Pro Thr Cys Cys Gln Leu His His Ala Glu Ala Ser Cys Cys
130     135     140

```

Siemens 0022 Seq Listing.txt

Arg Pro Ser Tyr Cys Gly Gln Ser Cys Cys Arg Pro Val Cys Cys Cys
 145 150 155 160
 Tyr Ser Cys Glu Pro Thr Cys
 165

<210> 405

<211> 177

<212> PRT

<213> Homo sapiens

<400> 405

Met Ala Cys Cys Gln Thr Ser Phe Cys Gly Phe Pro Ser Cys Ser Thr
 1 5 10 15
 Ser Gly Thr Cys Gly Ser Ser Cys Cys Gln Pro Ser Cys Cys Glu Thr
 20 25 30
 Ser Ser Cys Gln Pro Arg Cys Cys Glu Thr Ser Cys Cys Gln Pro Ser
 35 40 45
 Cys Cys Gln Thr Ser Phe Cys Gly Phe Pro Ser Phe Ser Thr Gly Gly
 50 55 60
 Thr Cys Asp Ser Ser Cys Cys Gln Pro Ser Cys Cys Glu Thr Ser Cys
 65 70 75 80
 Cys Gln Pro Ser Cys Tyr Gln Thr Ser Ser Cys Gly Thr Gly Cys Gly
 85 90 95
 Ile Gly Gly Gly Ile Gly Tyr Gly Gln Glu Gly Ser Ser Gly Ala Val
 100 105 110
 Ser Thr Arg Ile Arg Trp Cys Arg Pro Asp Cys Arg Val Glu Gly Thr
 115 120 125
 Cys Leu Pro Pro Cys Cys Val Val Ser Cys Thr Pro Pro Ser Cys Cys
 130 135 140
 Gln Leu His His Ala Glu Ala Ser Cys Cys Arg Pro Ser Tyr Cys Gly
 145 150 155 160
 Gln Ser Cys Cys Arg Pro Val Cys Cys Cys Tyr Cys Ser Glu Pro Thr
 165 170 175
 Cys

<210> 406

<211> 85

<212> PRT

<213> Homo sapiens

<400> 406

Val Thr Cys Val Pro Arg Cys Thr Arg Pro Ile Cys Glu Pro Cys Arg
 1 5 10 15
 Arg Pro Val Cys Cys Asp Pro Cys Ser Leu Gln Glu Gly Cys Cys Arg
 20 25 30
 Pro Ile Thr Cys Cys Pro Ser Ser Cys Thr Ala Val Val Cys Arg Pro
 35 40 45
 Cys Cys Trp Ala Thr Thr Cys Cys Gln Pro Val Ser Val Gln Ser Pro
 50 55 60
 Cys Cys Arg Pro Pro Cys Gly Gln Pro Thr Pro Cys Ser Thr Thr Cys

65 Arg Thr Ser Ser Cys 70 75 80
85

<210> 407

<211> 128

<212> PRT

<213> Homo sapiens

<400> 407
Met Thr Gly Ser Cys Cys Gly Ser Thr Leu Ser Ser Leu Ser Tyr Gly
1 5 10 15
Gly Gly Cys Cys Gln Pro Cys Cys Cys Arg Asp Pro Cys Cys Cys Arg
20 25 30
Pro Val Thr Cys Gln Thr Thr Val Cys Arg Pro Val Thr Cys Val Pro
35 40 45
Arg Cys Thr Arg Pro Ile Cys Glu Pro Cys Arg Arg Pro Val Cys Cys
50 55 60
Asp Pro Cys Ser Leu Gln Glu Gly Cys Cys Arg Pro Ile Thr Cys Cys
65 70 75 80
Pro Ser Ser Cys Thr Ala Val Val Cys Arg Pro Cys Cys Trp Ala Thr
85 90 95
Thr Cys Cys Gln Pro Val Ser Val Gln Ser Pro Cys Cys Arg Pro Pro
100 105 110
Cys Gly Gln Pro Thr Pro Cys Ser Thr Thr Cys Arg Thr Ser Ser Cys
115 120 125

<210> 408

<211> 20

<212> PRT

<213> Homo sapiens

<400> 408
Met Glu Thr His Cys Thr Gly Arg Ser Ala Ser Phe Cys Ser Ser Ser
1 5 10 15
Ala Ile Leu Ile
20

<210> 409

<211> 210

<212> PRT

<213> Homo sapiens

<400> 409
Met Val Ser Ser Cys Cys Gly Ser Val Cys Ser Asp Gln Gly Cys Gly
Page 239

Siemens 0022 Seq Listing.txt

```

1      5      10      15
Gln Val Leu Cys Gln Glu Thr Cys Cys Arg Pro Ser Cys Cys Gln Thr
20      25      30
Thr Cys Cys Arg Thr Thr Cys Tyr Arg Pro Ser Cys Cys Val Ser Ser
35      40      45
Cys Cys Arg Pro Gln Cys Cys Gln Ser Val Cys Cys Gln Pro Thr Cys
50      55      60
Cys Arg Pro Ser Cys Cys Glu Thr Thr Cys Cys His Pro Arg Cys Cys
65      70      75      80
Ile Ser Ser Cys Cys Arg Pro Ser Cys Cys Met Ser Ser Cys Cys Lys
85      90      95
Pro Gln Cys Cys Gln Ser Val Cys Cys Gln Pro Thr Cys Cys Arg Pro
100     105     110
Ser Cys Cys Ile Ser Ser Cys Cys Arg Pro Ser Cys Cys Val Ser Arg
115     120     125
Cys Cys Arg Pro Gln Cys Cys Gln Ser Val Cys Cys Gln Pro Thr Cys
130     135     140
Cys Arg Pro Ser Cys Cys Ile Ser Ser Cys Cys Arg Pro Ser Cys Cys
145     150     155     160
Glu Ser Ser Cys Cys Arg Pro Cys Cys Cys Arg Pro Cys Cys Cys Leu
165     170     175
Arg Pro Val Cys Gly Arg Val Ser Cys His Thr Thr Cys Tyr Arg Pro
180     185     190
Thr Cys Val Ile Ser Thr Cys Pro Arg Pro Leu Cys Cys Ala Ser Ser
195     200     205
Cys Cys
210

```

<210> 410

<211> 195

<212> PRT

<213> Homo sapiens

<400> 410

```

Met Val Asn Ser Cys Cys Gly Ser Val Cys Ser His Gln Gly Cys Gly
1      5      10      15
Gln Asp Leu Cys Gln Glu Thr Cys Cys Arg Pro Ser Cys Cys Glu Thr
20      25      30
Thr Cys Cys Arg Thr Thr Tyr Cys Arg Pro Ser Cys Cys Val Ser Ser
35      40      45
Cys Cys Arg Pro Gln Cys Cys Gln Ser Val Cys Cys Gln Pro Thr Cys
50      55      60
Cys Arg Pro Arg Cys Cys Ile Ser Ser Cys Cys Arg Pro Ser Cys Cys
65      70      75      80
Val Ser Ser Cys Cys Lys Pro Gln Cys Cys Gln Ser Met Cys Cys Gln
85      90      95
Pro Thr Cys Cys Arg Pro Arg Cys Cys Ile Ser Ser Cys Cys Arg Pro
100     105     110
Ser Cys Cys Val Ser Ser Cys Cys Arg Pro Gln Cys Cys Gln Ser Val
115     120     125
Cys Cys Gln Pro Thr Cys Cys His Pro Ser Cys Ser Ile Ser Ser Cys
130     135     140
Cys Arg Pro Ser Cys Cys Glu Ser Ser Cys Cys Arg Pro Cys Cys Cys
145     150     155     160
Leu Arg Pro Val Cys Gly Gly Val Ser Cys His Thr Thr Cys Tyr Arg
165     170     175
Pro Thr Cys Val Ile Ser Ser Cys Pro Arg Pro Leu Cys Cys Ala Ser
180     185     190

```


Ser Cys Cys
180
195

185

190

<210> 411

<211> 201

<212> PRT

<213> Homo sapiens

<400> 411

Met Val Asn Ser Cys Cys Gly Ser Val Cys Ser Asp Gln Gly Cys Gly
1 5 10 15
Leu Glu Asn Cys Cys Arg Pro Ser Cys Cys Gln Thr Thr Cys Cys Arg
20 25 30
Thr Thr Cys Cys Arg Pro Ser Cys Cys Val Ser Ser Cys Cys Arg Pro
35 40 45
Gln Cys Cys Gln Ser Val Cys Cys Gln Pro Thr Cys Cys Arg Pro Ser
50 55 60
Cys Cys Gln Thr Thr Cys Cys Arg Thr Thr Cys Cys Arg Pro Ser Cys
65 70 75 80
Cys Val Ser Ser Cys Cys Arg Pro Gln Cys Cys Gln Ser Val Cys Cys
85 90 95
Gln Pro Thr Cys Cys Arg Pro Ser Cys Cys Gln Thr Thr Cys Cys Arg
100 105 110
Thr Thr Cys Cys Arg Pro Ser Cys Cys Val Ser Ser Cys Cys Arg Pro
115 120 125
Gln Cys Cys Gln Ser Val Cys Cys Gln Pro Thr Cys Cys Arg Pro Ser
130 135 140
Cys Cys Ile Ser Ser Ser Cys Cys Pro Ser Cys Cys Glu Ser Ser Cys
145 150 155 160
Cys Arg Pro Cys Cys Cys Leu Arg Pro Val Cys Gly Arg Val Ser Cys
165 170 175
His Thr Thr Cys Tyr Arg Pro Thr Cys Val Ile Ser Thr Cys Pro Arg
180 185 190
Pro Leu Cys Cys Ala Ser Ser Cys Cys
195 200

<210> 412

<211> 186

<212> PRT

<213> Homo sapiens

<400> 412

Met Val Ser Ser Cys Cys Gly Ser Val Ser Ser Glu Gln Ser Cys Gly
1 5 10 15
Leu Glu Asn Cys Cys Arg Pro Ser Cys Cys Gln Thr Thr Cys Cys Arg
20 25 30
Thr Thr Cys Cys Arg Pro Ser Cys Cys Lys Pro Gln Cys Cys Gln Ser
35 40 45
Val Cys Tyr Gln Pro Thr Cys Cys His Pro Ser Cys Cys Ile Ser Ser
50 55 60

Siemens 0022 Seq Listing.txt

Cys Cys His Pro Tyr Cys Cys Glu Ser Ser Cys Cys Arg Pro Cys Cys
 65 70 75 80
 Cys Arg Pro Ser Cys Cys Gln Thr Thr Cys Cys Arg Thr Thr Cys Cys
 85 90 95
 Arg Thr Thr Cys Cys Cys Pro Ser Cys Cys Val Ser Ser Cys Cys Arg
 100 105 110
 Pro Gln Cys Cys Gln Ser Val Cys Cys Gln Pro Thr Cys Cys Arg Pro
 115 120 125
 Ser Cys Cys Ile Ser Ser Cys Cys His Pro Ser Cys Cys Glu Ser Ser
 130 135 140
 Cys Cys Arg Pro Cys Cys Cys Val Arg Pro Val Cys Gly Arg Val Ser
 145 150 155 160
 Cys His Thr Thr Cys Tyr Arg Pro Thr Cys Val Ile Ser Thr Cys Pro
 165 170 175
 Arg Pro Leu Cys Cys Ala Ser Ser Cys Cys
 180 185

<210> 413

<211> 106

<212> PRT

<213> Homo sapiens

<400> 413

Met Val Asn Ser Cys Cys Gly Ser Val Cys Ser Asp Gln Gly Cys Gly
 1 5 10 15
 Leu Glu Asn Cys Cys Arg Pro Ser Tyr Cys Gln Thr Thr Cys Cys Arg
 20 25 30
 Thr Thr Cys Cys Arg Pro Ser Cys Cys Arg Pro Ser Cys Cys Arg Pro
 35 40 45
 Gln Cys Cys Gln Ser Val Cys Cys Gln Pro Thr Cys Cys Cys Pro Ser
 50 55 60
 Tyr Cys Val Ser Ser Cys Cys Arg Pro Gln Cys Cys Gln Thr Thr Arg
 65 70 75 80
 Cys Arg Thr Thr Cys Cys Arg Pro Ser Cys Cys Val Ser Arg Cys Tyr
 85 90 95
 Arg Pro His Cys Gly Gln Ser Leu Cys Cys
 100 105

<210> 414

<211> 166

<212> PRT

<213> Homo sapiens

<400> 414

Met Val Asn Ser Cys Cys Gly Ser Val Cys Ser Asp Gln Gly Cys Gly
 1 5 10 15
 Leu Glu Asn Cys Cys Arg Pro Ser Tyr Cys Gln Thr Thr Cys Cys Arg
 20 25 30
 Thr Thr Cys Cys Arg Pro Ser Cys Cys Val Ser Ser Cys Cys Arg Pro
 35 40 45
 Gln Cys Cys Gln Thr Thr Cys Cys Arg Thr Thr Cys Cys His Pro Ser
 50 55 60

Siemens 0022 Seq Listing.txt

```

      50      55      60
Cys Cys Val Ser Ser Cys Cys Arg Pro Gln Cys Cys Gln Ser Val Cys
65      70      75      80
Cys Gln Pro Thr Cys Cys Arg Pro Gln Cys Cys Gln Thr Thr Cys Cys
      85      90      95
Arg Thr Thr Cys Cys Arg Pro Ser Cys Cys Arg Pro Gln Cys Gln
100      105      110
Ser Val Cys Cys Gln Pro Thr Cys Cys Cys Pro Ser Tyr Cys Val Ser
115      120      125
Ser Cys Cys Arg Pro Gln Cys Cys Gln Thr Thr Cys Cys Arg Thr Thr
130      135      140
Cys Cys Arg Pro Ser Cys Cys Val Ser Arg Cys Tyr Arg Pro His Cys
145      150      155      160
Gly Gln Ser Leu Cys Cys
      165

```

<210> 415

<211> 136

<212> PRT

<213> Homo sapiens

<400> 415

```

Met Val Asn Ser Cys Cys Gly Ser Val Cys Ser Asp Gln Gly Cys Gly
1      5      10      15
Leu Glu Asn Cys Cys Arg Pro Ser Cys Cys Gln Thr Thr Cys Cys Arg
20      25      30
Thr Thr Cys Cys Arg Pro Ser Cys Cys Val Ser Ser Cys Cys Arg Pro
35      40      45
Gln Cys Cys Gln Ser Val Cys Cys Gln Pro Thr Cys Cys Ser Pro Ser
50      55      60
Cys Cys Gln Thr Thr Cys Cys Arg Thr Thr Cys Cys Arg Pro Ser Cys
65      70      75      80
Cys Val Ser Ser Cys Phe Arg Pro Gln Cys Cys Gln Ser Val Cys Cys
85      90      95
Gln Pro Thr Cys Cys Arg Pro Ser Cys Gly Gln Thr Thr Cys Cys Arg
100      105      110
Thr Thr Cys Tyr Arg Pro Ser Cys Val Ser Thr Cys Cys Arg Pro
115      120      125
Thr Cys Ser Ser Gly Ser Cys Cys
130      135

```

<210> 416

<211> 127

<212> PRT

<213> Homo sapiens

<400> 416

```

Met Val Asn Ser Cys Cys Gly Ser Val Cys Ser Asp Gln Gly Cys Asp
1      5      10      15
Gln Gly Leu Cys Gln Glu Thr Cys Cys Arg Pro Ser Cys Cys Gln Thr
20      25      30

```

Siemens 0022 Seq Listing.txt

```

Thr Cys Cys Cys Pro Ser Cys Val Val Ser Ser Cys Cys Arg Pro Ser
35 40 45
Cys Ser Gln Thr Thr Cys Cys Gln Thr Thr Cys Cys Arg Pro Ser Cys
50 55 60
Cys Arg Pro Val Cys Cys Gln Thr Thr Cys Arg Pro Ser Cys Gly Val
65 70 75 80
Ser Ser Cys Cys Arg Pro Leu Cys Cys Gln Thr Thr Cys Arg Pro Ser
85 90 95
Cys Gly Val Ser Ser Cys Cys Arg Pro Leu Cys Cys Gln Thr Thr Cys
100 105 110
Cys Arg Thr Thr Cys Cys Arg Pro Ser Cys Cys Gly Ser Ser Cys
115 120 125

```

<210> 417

<211> 174

<212> PRT

<213> Homo sapiens

<400> 417

```

Met Thr His Cys Cys Ser Pro Cys Cys Gln Pro Thr Cys Cys Arg Thr
1 5 10 15
Thr Cys Cys Arg Thr Thr Cys Trp Lys Pro Thr Thr Val Thr Thr Cys
20 25 30
Ser Ser Thr Pro Cys Cys Gln Pro Ala Cys Cys Val Ser Cys Cys
35 40 45
Gln Pro Cys Cys Arg Pro Thr Cys Cys Gln Asn Thr Cys Cys Arg Thr
50 55 60
Thr Cys Cys Gln Pro Thr Cys Val Thr Ser Cys Cys Gln Pro Ser Cys
65 70 75 80
Cys Ser Thr Pro Cys Cys Gln Pro Thr Cys Cys Gly Ser Ser Cys Cys
85 90 95
Gly Gln Thr Ser Cys Gly Ser Ser Cys Gly Gln Ser Ser Ser Cys Ala
100 105 110
Pro Val Tyr Cys Arg Arg Thr Cys Tyr Tyr Pro Thr Thr Val Cys Leu
115 120 125
Pro Gly Cys Leu Asn Gln Ser Cys Gly Ser Asn Cys Cys Gln Pro Cys
130 135 140
Cys Arg Pro Ala Cys Cys Glu Thr Thr Cys Cys Arg Thr Thr Cys Phe
145 150 155 160
Gln Pro Thr Cys Val Ser Ser Cys Cys Gln Pro Ser Cys Cys
165 170

```

<210> 418

<211> 159

<212> PRT

<213> Homo sapiens

<400> 418

```

Met Thr His Cys Cys Ser Pro Cys Cys Gln Pro Thr Cys Cys Arg Thr
1 5 10 15
Thr Cys Trp Gln Pro Thr Thr Val Thr Thr Cys Ser Ser Thr Pro Cys
Page 244

```

Siemens 0022 Seq Listing.txt

```

      20      25      30
Cys Gln Pro Ser Cys Cys Val Ser Ser Cys Cys Gln Pro Cys Cys His
      35      40      45
Pro Thr Cys Cys Gln Asn Thr Cys Cys Arg Thr Thr Cys Cys Gln Pro
      50      55      60
Ile Cys Val Thr Ser Cys Cys Gln Pro Ser Cys Cys Ser Thr Pro Cys
      65      70      75
Cys Gln Pro Thr Cys Cys Gly Ser Ser Cys Gly Gln Ser Ser Ser Cys
      80      85      90
Ala Pro Val Tyr Cys Arg Arg Thr Cys Tyr His Pro Thr Ser Val Cys
      95      100      105
Leu Pro Gly Cys Leu Asn Gln Ser Cys Gly Ser Asn Cys Cys Gln Pro
      110      115      120
Cys Cys Arg Pro Ala Cys Cys Glu Thr Thr Cys Cys Arg Thr Thr Cys
      125      130      135
Phe Gln Pro Thr Cys Val Tyr Ser Cys Cys Gln Pro Ser Cys Cys
      140      145      150

```

<210> 419

<211> 159

<212> PRT

<213> Homo sapiens

<400> 419

```

Met Thr His Cys Cys Ser Pro Cys Cys Gln Pro Thr Cys Cys Arg Thr
      5      10      15
Thr Cys Trp Lys Pro Thr Thr Val Thr Thr Cys Ser Ser Thr Pro Cys
      20      25      30
Cys Gln Pro Ser Cys Cys Val Ser Ser Cys Cys Gln Pro Cys Cys Arg
      35      40      45
Pro Thr Cys Cys Gln Asn Thr Cys Cys Gln Pro Ile Cys Val Thr Ser
      50      55      60
Cys Cys Gln Pro Ser Cys Cys Ser Thr Pro Cys Cys Gln Pro Thr Cys
      65      70      75
Cys Gly Gln Thr Ser Cys Gly Ser Ser Cys Gly Gln Ser Ser Ser Cys
      80      85      90
Ala Pro Val Tyr Cys Arg Arg Thr Cys Tyr His Pro Thr Thr Val Cys
      95      100      105
Leu Pro Gly Cys Leu Asn Gln Ser Cys Gly Ser Ser Cys Cys Gln Pro
      110      115      120
Cys Cys Arg Pro Ala Cys Cys Glu Thr Thr Cys Cys Arg Thr Thr Cys
      125      130      135
Phe Gln Pro Thr Cys Val Tyr Ser Cys Cys Gln Pro Ser Cys Cys
      140      145      150

```

<210> 420

<211> 154

<212> PRT

<213> Homo sapiens

<400> 420

Siemens 0022 Seq Listing.txt

```

Met Thr His Cys Cys Ser Pro Cys Cys Gln Pro Thr Cys Cys Arg Thr
1      5      10      15
Thr Cys Cys Arg Thr Thr Cys Trp Lys Pro Thr Thr Val Thr Thr Cys
20      25      30
Ser Ser Thr Pro Cys Cys Gln Pro Ser Cys Cys Val Ser Ser Cys Cys
35      40      45
Gln Pro Cys Cys Arg Pro Ala Cys Cys Gln Asn Thr Cys Cys Arg Thr
50      55      60
Thr Cys Cys Gln Pro Thr Cys Leu Ser Ser Cys Cys Gly Gln Thr Ser
65      70      75
Cys Gly Ser Ser Cys Gly Gln Ser Ser Ser Cys Ala Pro Val Tyr Cys
85      90      95
Arg Arg Thr Cys Tyr Tyr Pro Thr Thr Val Cys Leu Pro Gly Cys Leu
100     105     110
Asn Gln Ser Cys Gly Ser Ser Cys Cys Gln Pro Cys Cys Arg Pro Ala
115     120     125
Cys Cys Glu Thr Thr Cys Cys Arg Thr Thr Cys Phe Gln Pro Thr Cys
130     135     140
Val Ser Ser Cys Cys Gln Pro Ser Cys Cys
145     150

```

<210> 421

<211> 154

<212> PRT

<213> Homo sapiens

<400> 421

```

Met Thr His Cys Cys Ser Pro Cys Cys Gln Pro Thr Cys Cys Arg Thr
1      5      10      15
Thr Cys Cys Arg Thr Thr Cys Trp Lys Pro Thr Thr Val Thr Thr Cys
20      25      30
Ser Ser Thr Pro Cys Cys Gln Pro Ser Cys Cys Val Ser Ser Cys Cys
35      40      45
Gln Pro Cys Cys Arg Pro Thr Cys Cys Gln Asn Thr Cys Cys Gln Pro
50      55      60
Thr Cys Val Thr Ser Cys Gln Pro Ser Cys Cys Ser Thr Pro Cys
65      70      75
Cys Gln Pro Thr Cys Gly Ser Ser Cys Asp Gln Ser Ser Ser Cys
85      90      95
Ala Pro Val Tyr Cys Arg Arg Thr Cys Tyr Tyr Pro Thr Thr Val Cys
100     105     110
Leu Pro Gly Cys Leu Asn Gln Ser Cys Gly Ser Asn Cys Cys Gln Pro
115     120     125
Cys Cys Arg Pro Ala Cys Cys Glu Thr Thr Cys Phe Gln Pro Thr Cys
130     135     140
Val Ser Ser Cys Cys Gln Pro Phe Cys Cys
145     150

```

<210> 422

<211> 138

<212> PRT

<213> Homo sapiens

siemens 0022 Seq Listing.txt

<400> 422

```

Met Leu Gln Asp His Leu Leu Gln Asp Asn Leu Leu Glu Ala His His
1      5      10      15
Cys Asp His Leu Gln Gln His Ile Leu Leu Pro Ala Leu Leu Cys
20      25      30
Val Gln Leu Leu Pro Ala Leu Leu Pro Pro Asn Leu Leu Ser Lys His
35      40      45
Leu Leu Gln Asp His Leu Leu Pro Ala His Leu Cys Asp Gln Leu Leu
50      55      60
Pro Ala Phe Leu Leu Gln His Thr Leu Leu Thr Ala His Leu Leu Trp
65      70      75      80
Val Gln Leu Leu Trp Pro Asn His Leu Trp Val Gln Leu Leu Pro Ala
85      90      95
Gln Leu Leu Cys Thr His Leu Leu Gln Glu Asn Leu Leu Pro Pro His
100     105     110
Glu Cys Leu Pro Ala Trp Leu Pro Lys Ser Glu Leu Trp Leu Gln Leu
115     120     125
Leu Pro Ala Leu Leu Pro Pro Ser Leu Leu
130     135

```

<210> 423

<211> 409

<212> PRT

<213> Homo sapiens

<400> 423

```

Met Ser Gly Ser Cys Ser Ser Arg Lys Cys Phe Ser Val Pro Ala Thr
1      5      10      15
Ser Leu Cys Ser Thr Glu Val Ser Cys Gly Gly Pro Ile Cys Leu Pro
20      25      30
Ser Ser Cys Gln Ser Gln Thr Trp Gln Leu Val Thr Cys Gln Asp Ser
35      40      45
Cys Gly Ser Ser Ser Cys Gly Pro Gln Cys Arg Gln Pro Ser Cys Pro
50      55      60
Val Ser Ser Cys Ala Gln Pro Leu Cys Cys Asp Pro Val Ile Cys Glu
65      70      75      80
Pro Ser Cys Ser Val Ser Ser Gly Cys Gln Pro Val Cys Cys Glu Ala
85      90      95
Thr Thr Cys Glu Pro Ser Cys Ser Val Ser Asn Cys Tyr Gln Pro Val
100     105     110
Cys Phe Glu Ala Thr Ile Cys Glu Pro Ser Cys Ser Val Ser Asn Cys
115     120     125
Cys Gln Pro Val Cys Phe Glu Ala Thr Val Cys Glu Pro Ser Cys Ser
130     135     140
Val Ser Ser Cys Ala Gln Pro Val Cys Cys Glu Pro Ala Ile Cys Glu
145     150     155     160
Pro Ser Cys Ser Val Ser Ser Cys Cys Gln Pro Val Gly Ser Glu Ala
165     170     175
Thr Ser Cys Gln Pro Val Leu Cys Val Pro Thr Ser Cys Gln Pro Val
180     185     190
Leu Cys Lys Ser Ser Cys Cys Gln Pro Val Val Cys Glu Pro Ser Cys
195     200     205
Cys Ser Ala Val Cys Thr Leu Pro Ser Ser Cys Gln Pro Val Val Cys
210     215     220
Glu Pro Ser Cys Cys Gln Pro Val Cys Pro Thr Pro Thr Cys Ser Val
225

```

Siemens 0022 Seq Listing.txt

```

225      230      235      240
Thr Ser Ser Cys Gln Ala Val Cys Cys Asp Pro Ser Pro Trp Ser Ser
245      250      255
Ala Ser Ala Ile Cys Arg Pro Thr Cys Pro Arg Thr Phe Tyr Ile Pro
260      265      270
Ser Ser Ser Lys Arg Pro Cys Ser Ala Thr Ile Ser Tyr Arg Pro Val
275      280      285
Ser Arg Pro Ile Cys Arg Pro Ile Cys Ser Gly Leu Leu Thr Tyr Arg
290      295      300
Gln Pro Tyr Met Thr Ser Ile Ser Tyr Arg Pro Ala Cys Tyr Arg Pro
305      310      315
Cys Tyr Ser Ile Leu Arg Arg Pro Ala Cys Val Thr Ser Tyr Ser Cys
325      330      335
Arg Pro Val Tyr Phe Arg Pro Ser Cys Thr Glu Ser Asp Ser Cys Lys
340      345      350
Arg Asp Cys Lys Lys Ser Thr Ser Ser Gln Leu Asp Cys Val Asp Thr
355      360      365
Thr Pro Cys Lys Val Asp Val Ser Glu Glu Ala Pro Cys Gln Pro Thr
370      375      380
Glu Ala Lys Pro Ile Ser Pro Thr Thr Arg Glu Ala Ala Ala Ala Gln
385      390      395
Pro Ala Ala Ser Lys Pro Ala Asn Cys
405

```

<210> 424

<211> 105

<212> PRT

<213> Homo sapiens

<400> 424

```

Met Gly Cys Cys Pro Gly Asp Cys Phe Thr Cys Cys Thr Gln Glu Gln
1      5      10      15
Asn Cys Cys Glu Glu Cys Cys Cys Gln Pro Gly Cys Cys Gly Cys Cys
20      25      30
Gly Ser Cys Cys Gly Cys Gly Gly Ser Gly Cys Gly Gly Ser Gly Cys
35      40      45
Gly Gly Ser Cys Cys Gly Ser Ser Cys Cys Gly Ser Gly Cys Gly Gly
50      55      60
Cys Gly Gly Cys Gly Gly Cys Gly Gly Cys Cys Gly Ser Ser Cys
65      70      75      80
Cys Gly Ser Ser Cys Cys Gly Ser Gly Cys Cys Gly Pro Val Cys Cys
85      90      95
Gln Pro Thr Pro Ile Cys Asp Thr Lys
100      105

```

<210> 425

<211> 404

<212> PRT

<213> Homo sapiens

<400> 425

Siemens 0022 Seq Listing.txt

```

Met Ser Tyr Ser Cys Gly Leu Pro Ser Leu Ser Cys Arg Thr Ser Cys
1 10 15
Ser Ser Arg Pro Cys Val Pro Pro Ser Cys His Gly Cys Thr Leu Pro
20 25 30
Gly Ala Cys Asn Ile Pro Ala Asn Val Ser Asn Cys Asn Trp Phe Cys
35 40 45
Glu Gly Ser Phe Asn Gly Ser Glu Lys Glu Thr Met Gln Phe Leu Asn
50 55 60
Asp Arg Leu Ala Ser Tyr Leu Glu Lys Val Arg Gln Leu Glu Arg Asp
65 70 75 80
Asn Ala Glu Leu Glu Asn Leu Ile Arg Glu Arg Ser Gln Gln Gln Glu
85 90 95
Pro Leu Val Cys Ala Ser Tyr Gln Ser Tyr Phe Lys Thr Ile Glu Glu
100 105 110
Leu Gln Gln Lys Ile Leu Cys Ser Lys Ser Glu Asn Ala Arg Leu Val
115 120 125
Val Gln Ile Asp Asn Ala Lys Leu Ala Ser Asp Asp Phe Arg Thr Lys
130 135 140
Tyr Glu Thr Glu Leu Ser Leu Arg Gln Leu Val Glu Ser Asp Ile Asn
145 150 155 160
Gly Leu Arg Arg Ile Leu Asp Glu Leu Thr Leu Cys Arg Ser Asp Leu
165 170 175
Glu Ala Gln Val Glu Ser Leu Lys Glu Glu Leu Leu Cys Leu Lys Gln
180 185 190
Asn His Glu Gln Glu Val Asn Thr Leu Arg Cys Gln Leu Gly Asp Arg
195 200 205
Leu Asn Val Glu Val Asp Ala Ala Pro Thr Val Asp Leu Asn Gln Val
210 215 220
Leu Asn Glu Thr Arg Ser Gln Tyr Glu Ala Leu Val Glu Thr Asn Arg
225 230 235 240
Arg Glu Val Glu Gln Trp Phe Ala Thr Gln Thr Glu Glu Leu Asn Lys
245 250 255
Gln Val Val Ser Ser Ser Glu Gln Leu Gln Ser Tyr Gln Ala Glu Ile
260 265 270
Ile Glu Leu Arg Arg Thr Val Asn Ala Leu Glu Ile Glu Leu Gln Ala
275 280 285
Gln His Asn Leu Arg Asp Ser Leu Glu Asn Thr Leu Thr Glu Ser Glu
290 295 300
Ala Arg Tyr Ser Ser Gln Leu Ser Gln Val Gln Arg Leu Ile Thr Asn
305 310 315 320
Val Glu Ser Gln Leu Ala Glu Ile Arg Ser Asp Leu Glu Arg Gln Asn
325 330 335
Gln Glu Tyr Gln Val Leu Leu Asp Val Arg Ala Arg Leu Glu Cys Glu
340 345 350
Ile Asn Thr Tyr Arg Ser Leu Leu Glu Ser Glu Asp Cys Lys Leu Pro
355 360 365
Ser Asn Pro Cys Ala Thr Thr Asn Ala Cys Asp Lys Ser Thr Gly Pro
370 375 380
Cys Ile Ser Asn Pro Cys Gly Leu Arg Ala Arg Cys Gly Pro Cys Asn
385 390 395 400
Thr Phe Gly Tyr

```

<210> 426

<211> 404

<212> PRT

<213> Homo sapiens

Siemens 0022 Seq Listing.txt

<400> 426

```

Met Pro Tyr Asn Phe Cys Leu Pro Ser Leu Ser Cys Arg Thr Ser Cys
1      5      10      15
Ser Ser Arg Pro Cys Val Pro Pro Ser Cys His Gly Tyr Thr Leu Pro
20      25      30
Gly Ala Cys Asn Ile Pro Ala Asn Val Ser Asn Cys Asn Trp Phe Cys
35      40      45
Glu Gly Ser Phe Asn Gly Ser Glu Lys Glu Thr Met Gln Phe Leu Asn
50      55      60
Asp Arg Leu Ala Ser Tyr Leu Glu Lys Val Arg Gln Leu Glu Arg Asp
65      70      75      80
Asn Ala Glu Leu Glu Asn Leu Ile Arg Glu Arg Ser Gln Gln Gln Glu
85      90      95
Pro Leu Leu Cys Pro Ser Tyr Gln Ser Tyr Phe Lys Thr Ile Glu Glu
100     105     110
Leu Gln Gln Lys Ile Leu Cys Ser Lys Ser Glu Asn Ala Arg Leu Val
115     120     125
Val Gln Ile Asp Asn Ala Lys Leu Ala Ala Asp Asp Phe Arg Thr Lys
130     135     140
Tyr Gln Thr Glu Gln Ser Leu Arg Gln Leu Val Glu Ser Asp Ile Asn
145     150     155     160
Ser Leu Arg Arg Ile Leu Asp Glu Leu Thr Leu Cys Arg Ser Asp Leu
165     170     175
Glu Ala Gln Met Glu Ser Leu Lys Glu Glu Leu Ser Leu Lys Gln
180     185     190
Asn His Glu Gln Glu Val Asn Thr Leu Arg Cys Gln Leu Gly Asp Arg
195     200     205
Leu Asn Val Glu Val Asp Ala Ala Pro Ala Val Asp Leu Asn Gln Val
210     215     220
Leu Asn Glu Thr Arg Asn Gln Tyr Glu Ala Leu Val Glu Thr Asn Arg
225     230     235     240
Arg Glu Val Glu Gln Trp Phe Ala Thr Gln Thr Glu Glu Leu Asn Lys
245     250     255
Gln Val Val Ser Ser Ser Glu Gln Leu Gln Ser Tyr Gln Ala Glu Ile
260     265     270
Ile Glu Leu Arg Arg Thr Val Asn Ala Leu Glu Ile Glu Leu Gln Ala
275     280     285
Gln His Asn Leu Arg Tyr Ser Leu Glu Asn Thr Leu Thr Glu Ser Glu
290     295     300
Ala Arg Tyr Ser Ser Gln Leu Ser Gln Val Gln Ser Leu Ile Thr Asn
305     310     315     320
Val Glu Ser Gln Leu Ala Glu Ile Arg Ser Asp Leu Glu Arg Gln Asn
325     330     335
Gln Glu Tyr Gln Val Leu Leu Asp Val Arg Ala Arg Leu Glu Cys Glu
340     345     350
Ile Asn Thr Tyr Arg Ser Leu Leu Glu Ser Glu Asp Cys Lys Leu Pro
355     360     365
Ser Asn Pro Cys Ala Thr Thr Asn Ala Cys Glu Lys Pro Ile Gly Ser
370     375     380
Cys Val Thr Asn Pro Cys Gly Pro Arg Ser Arg Cys Gly Pro Cys Asn
385     390     395     400
Thr Phe Gly Tyr

```

<210> 427

<211> 436

<212> PRT

<213> Homo sapiens

Siemens 0022 Seq Listing.txt

<400> 427

```

Met Leu Tyr Ala Lys Pro Pro Pro Thr Ile Asn Gly Ile Lys Gly Leu
1      5      10      15
Gln Arg Lys Glu Arg Leu Lys Pro Ala His Ile His Leu Gln Gln Leu
20      25      30
Thr Cys Phe Ser Ile Thr Cys Ser Ser Thr Met Ser Tyr Ser Cys Cys
35      40      45
Leu Pro Ser Leu Gly Cys Arg Thr Ser Cys Ser Ser Arg Pro Cys Val
50      55      60
Pro Pro Ser Cys His Gly Tyr Thr Leu Pro Gly Ala Cys Asn Ile Pro
65      70      75      80
Ala Asn Val Ser Asn Cys Asn Trp Phe Cys Glu Gly Ser Phe Asn Gly
85      90      95
Ser Glu Lys Glu Thr Met Gln Phe Leu Asn Asp Arg Leu Ala Ser Tyr
100     105
Leu Glu Lys Val Arg Gln Leu Glu Arg Asp Asn Ala Glu Leu Glu Lys
115     120     125
Leu Ile Gln Glu Arg Ser Gln Gln Gln Glu Pro Leu Leu Cys Pro Ser
130     135     140
Tyr Gln Ser Tyr Phe Lys Thr Ile Glu Glu Leu Gln Gln Lys Ile Leu
145     150     155     160
Cys Ala Lys Ala Glu Asn Ala Arg Leu Val Val Asn Ile Asp Asn Ala
165     170     175
Lys Leu Ala Ser Asp Asp Phe Arg Ser Lys Tyr Gln Thr Glu Gln Ser
180     185     190
Leu Arg Leu Leu Val Glu Ser Asp Ile Asn Ser Ile Arg Arg Ile Leu
195     200     205
Asp Glu Leu Thr Leu Cys Lys Ser Asp Leu Glu Ser Gln Val Glu Ser
210     215     220
Leu Arg Glu Glu Leu Ile Cys Leu Lys Lys Asn His Glu Glu Glu Val
225     230     235     240
Asn Thr Leu Arg Ser Gln Leu Gly Asp Arg Leu Asn Val Glu Val Asp
245     250     255
Thr Ala Pro Thr Val Asp Leu Asn Gln Val Leu Asn Glu Thr Arg Ser
260     265     270
Gln Tyr Glu Ala Leu Val Glu Ile Asn Arg Arg Glu Val Glu Gln Trp
275     280     285
Phe Ala Thr Gln Thr Glu Glu Leu Asn Lys Gln Val Val Ser Ser Ser
290     295     300
Glu Gln Leu Gln Ser Cys Gln Ala Glu Ile Ile Glu Leu Arg Arg Thr
305     310     315     320
Val Asn Ala Leu Glu Ile Glu Leu Gln Ala Gln His Asn Leu Arg Asp
325     330     335
Ser Leu Glu Asn Thr Leu Thr Glu Ser Glu Ala His Tyr Ser Ser Gln
340     345     350
Leu Ser Gln Val Gln Ser Leu Ile Thr Asn Val Glu Ser Gln Leu Ala
355     360     365
Glu Ile Arg Cys Asp Leu Glu Arg Gln Asn Gln Glu Tyr Gln Val Leu
370     375     380
Leu Asp Val Arg Ala Arg Leu Glu Cys Glu Ile Asn Thr Tyr Arg Ser
385     390     395     400
Leu Leu Glu Ser Glu Asp Cys Lys Leu Pro Cys Asn Pro Cys Ala Thr
405     410     415
Thr Asn Ala Ser Gly Asn Ser Cys Gly Pro Cys Gly Thr Ser Gln Lys
420     425     430
Gly Cys Cys Asn
435

```

<210> 428

Siemens 0022 Seq Listing.txt

<211> 416

<212> PRT

<213> Homo sapiens

<400> 428

```

Met Pro Tyr Asn Phe Cys Leu Pro Ser Leu Ser Cys Arg Thr Ser Cys
1      5      10      15
Ser Ser Arg Pro Cys Val Pro Pro Ser Cys His Ser Cys Thr Leu Pro
20      25      30
Gly Ala Cys Asn Ile Pro Ala Asn Val Ser Asn Cys Asn Trp Phe Cys
35      40      45
Glu Gly Ser Phe Asn Gly Ser Glu Lys Glu Thr Met Gln Phe Leu Asn
50      55      60
Asp Arg Leu Ala Ser Tyr Leu Glu Lys Val Arg Gln Leu Glu Arg Asp
65      70      75      80
Asn Ala Glu Leu Glu Asn Leu Ile Arg Glu Arg Ser Gln Gln Gln Glu
85      90      95
Pro Leu Leu Cys Pro Ser Tyr Gln Ser Tyr Phe Lys Thr Ile Glu Glu
100     105
Leu Gln Gln Lys Ile Leu Cys Thr Lys Ser Glu Asn Ala Arg Leu Val
115     120     125
Val Gln Ile Asp Asn Ala Lys Leu Ala Ala Asp Asp Phe Arg Thr Lys
130     135     140
Tyr Gln Thr Glu Leu Ser Leu Arg Gln Leu Val Glu Ser Asp Ile Asn
145     150     155     160
Gly Leu Arg Arg Ile Leu Asp Glu Leu Thr Leu Cys Lys Ser Asp Leu
165     170     175
Glu Ala Gln Val Glu Ser Leu Lys Glu Glu Leu Leu Cys Leu Lys Ser
180     185     190
Asn His Glu Gln Glu Val Asn Thr Leu Arg Cys Gln Leu Gly Asp Arg
195     200     205
Leu Asn Val Glu Val Asp Ala Pro Thr Val Asp Leu Asn Arg Val
210     215     220
Leu Asn Glu Thr Arg Ser Gln Tyr Glu Ala Leu Val Glu Thr Asn Arg
225     230     235     240
Arg Glu Val Glu Gln Trp Phe Thr Thr Gln Thr Glu Glu Leu Asn Lys
245     250     255
Gln Val Val Ser Ser Glu Gln Leu Gln Ser Tyr Gln Ala Glu Ile
260     265     270
Ile Glu Leu Arg Arg Thr Val Asn Ala Leu Glu Ile Glu Leu Gln Ala
275     280     285
Gln His Asn Leu Arg Asp Ser Leu Glu Asn Thr Leu Thr Glu Ser Glu
290     295     300
Ala Arg Tyr Ser Ser Gln Leu Ser Gln Val Gln Ser Leu Ile Thr Asn
305     310     315     320
Val Glu Ser Gln Leu Ala Glu Ile Arg Ser Asp Leu Glu Arg Gln Asn
325     330     335
Gln Glu Tyr Gln Val Leu Leu Asp Val Arg Ala Arg Leu Glu Cys Glu
340     345     350
Ile Asn Thr Tyr Arg Ser Leu Leu Glu Ser Glu Asp Cys Asn Leu Pro
355     360     365
Ser Asn Pro Cys Ala Thr Thr Asn Ala Cys Ser Lys Pro Ile Gly Pro
370     375     380
Cys Leu Ser Asn Pro Cys Thr Ser Cys Val Pro Pro Ala Pro Cys Thr
385     390     395     400
Pro Cys Ala Pro Arg Pro Arg Cys Gly Pro Cys Asn Ser Phe Val Arg
405     410     415

```

Siemens 0022 Seq Listing.txt

<210> 429

<211> 201

<212> PRT

<213> Homo sapiens

<400> 429

```

Met Thr Ser Asp His Cys Ser Ser Leu Leu Ser Gly Gln Val Ser Glu
1      5      10      15
Ala Asn Ala Ala Ser Leu Cys Leu Leu Ala Asn Val Ala His Ala Asn
20      25      30
Arg Val Arg Val Gly Ser Thr Pro Leu Gly Arg Leu Ser Leu Cys Leu
35      40      45
Pro Pro Thr Cys His Thr Thr Cys Pro Leu Pro Gly Thr Cys His Ile
50      55      60
Pro Gly Asn Ile Gly Ile Cys Gly Ala Tyr Arg Glu Asn Thr Leu Asn
65      70      75      80
Gly His Glu Lys Glu Thr Met Gln Phe Leu Asn Asp Arg Leu Ala Asn
85      90      95
Tyr Leu Glu Lys Val Arg Gln Leu Glu Trp Asp Asn Ala Glu Leu Glu
100     105     110
Thr Lys Leu His Glu Arg Ser Lys Cys His Glu Ser Ser Val Cys Arg
115     120     125
Asn Tyr Gln Ser Tyr Phe Cys Thr Ile Gln Glu Leu Gln Gln Lys Val
130     135     140
Arg Phe Ala Val His Gln Ile Arg Gly Gln Glu Ser Ala Tyr Cys Leu
145     150     155     160
Ser Ala Lys Ser Gly Pro Pro Pro Ala Phe Ala Asn Lys Val Leu Leu
165     170     175
Val His Gly His Ala His Ala Phe Val Cys Cys Leu Gln Leu Leu Leu
180     185     190
Tyr Tyr Ser Gly Arg Val Gln Ser Leu
195     200

```

<210> 430

<211> 471

<212> PRT

<213> Homo sapiens

<400> 430

```

Met Thr Ser Phe Tyr Ser Thr Ser Ser Cys Pro Leu Gly Cys Thr Met
1      5      10      15
Ala Pro Gly Ala Arg Asn Val Phe Val Ser Pro Ile Asp Val Gly Cys
20      25      30
Gln Pro Val Ala Glu Ala Asn Ala Ala Ser Met Cys Leu Leu Ala Asn
35      40      45
Val Ala His Ala Asn Arg Val Arg Val Gly Ser Thr Pro Leu Gly Arg
50      55      60
Pro Ser Leu Cys Leu Pro Pro Thr Ser His Thr Ala Cys Pro Leu Pro
65      70      75      80
Gly Thr Cys His Ile Pro Gly Asn Ile Gly Ile Cys Gly Ala Tyr Gly
85      90      95

```

Siemens 0022 Seq Listing.txt

Lys	Asn	Thr	Leu	Asn	Gly	His	Glu	Lys	Glu	Thr	Met	Lys	Phe	Leu	Asn
			100					105					110		
Asp	Arg	Leu	Ala	Asn	Tyr	Leu	Glu	Lys	Val	Arg	Gln	Leu	Glu	Gln	Glu
		115					120					125			
Asn	Ala	Glu	Leu	Glu	Thr	Thr	Leu	Leu	Glu	Arg	Ser	Lys	Cys	His	Glu
	130				135						140				
Ser	Thr	Val	Cys	Pro	Asp	Tyr	Gln	Ser	Tyr	Phe	Arg	Thr	Ile	Glu	Glu
145					150				155						160
Leu	Gln	Gln	Lys	Ile	Leu	Cys	Ser	Lys	Ala	Glu	Asn	Ala	Arg	Leu	Ile
			165						170					175	
Val	Gln	Ile	Asp	Asn	Ala	Lys	Leu	Ala	Ala	Asp	Asp	Phe	Arg	Ile	Lys
			180					185					190		
Leu	Glu	Ser	Glu	Arg	Ser	Leu	His	Gln	Leu	Val	Glu	Ala	Asp	Lys	Cys
		195					200					205			
Gly	Thr	Gln	Lys	Leu	Leu	Asp	Asp	Ala	Thr	Leu	Ala	Lys	Ala	Asp	Leu
	210					215					220				
Glu	Ala	Gln	Gln	Glu	Ser	Leu	Lys	Glu	Glu	Gln	Leu	Ser	Leu	Lys	Ser
225					230					235					240
Asn	His	Glu	Gln	Glu	Val	Lys	Ile	Leu	Arg	Ser	Gln	Leu	Gly	Glu	Lys
			245						250					255	
Phe	Arg	Ile	Glu	Leu	Asp	Ile	Glu	Pro	Thr	Ile	Asp	Leu	Asn	Arg	Val
			260					265					270		
Leu	Gly	Glu	Met	Arg	Ala	Gln	Tyr	Glu	Ala	Met	Val	Glu	Thr	Asn	His
		275					280					285			
Gln	Asp	Val	Glu	Gln	Trp	Phe	Gln	Ala	Gln	Ser	Glu	Gly	Ile	Ser	Leu
	290					295					300				
Gln	Ala	Met	Ser	Cys	Ser	Glu	Glu	Leu	Gln	Cys	Cys	Gln	Ser	Glu	Ile
305					310					315					320
Leu	Glu	Leu	Arg	Cys	Thr	Val	Asn	Ala	Leu	Glu	Val	Glu	Arg	Gln	Ala
				325					330					335	
Gln	His	Thr	Leu	Lys	Asp	Cys	Leu	Gln	Asn	Ser	Leu	Cys	Glu	Ala	Glu
			340					345					350		
Asp	Arg	Tyr	Gly	Thr	Glu	Leu	Ala	Gln	Met	Gln	Ser	Leu	Ile	Ser	Asn
		355					360					365			
Leu	Glu	Glu	Gln	Leu	Ser	Glu	Ile	Arg	Ala	Asp	Leu	Glu	Arg	Gln	Asn
	370					375					380				
Gln	Glu	Tyr	Gln	Val	Leu	Asp	Val	Lys	Ala	Arg	Leu	Glu	Asn	Glu	
385					390					395					400
Ile	Ala	Thr	Tyr	Arg	Asn	Leu	Thr	Pro	Leu	Gln	Ser	Leu	Phe	His	Ala
				405					410					415	
Cys	Leu	Leu	Tyr	Phe	Leu	Ser	Lys	Leu	Trp	Pro	Cys	His	Arg	Trp	Val
			420					425					430		
Ser	Leu	Trp	Pro	Trp	Ser	Gln	His	Gly	Glu	Met	Ile	Leu	Lys	Ala	Arg
		435					440					445			
Val	Arg	Arg	Leu	Arg	Leu	Val	Ala	Leu	Gly	Ser	Gly	Val	Pro	Ser	Pro
	450					455					460				
Cys	Pro	Val	Phe	Leu	Gln	Asp									
465					470										

<210> 431

<211> 456

<212> PRT

<213> Homo sapiens

<400> 431

Met	Thr	Ser	Ser	Tyr	Ser	Ser	Ser	Ser	Cys	Pro	Leu	Gly	Cys	Thr	Met
1				5					10					15	

Siemens 0022 Seq Listing.txt

Ala	Pro	Gly	Ala	Arg	Asn	Val	Ser	Val	Ser	Pro	Ile	Asp	Ile	Gly	Cys
			20					25					30		
Gln	Pro	Gly	Ala	Glu	Ala	Asn	Ile	Ala	Pro	Met	Cys	Leu	Leu	Ala	Asn
		35					40					45			
Val	Ala	His	Ala	Asn	Arg	Val	Arg	Val	Gly	Ser	Thr	Pro	Leu	Gly	Arg
	50					55					60				
Pro	Ser	Leu	Cys	Leu	Pro	Thr	Cys	His	Thr	Ala	Cys	Pro	Leu	Pro	
65					70				75					80	
Gly	Thr	Cys	His	Ile	Pro	Gly	Asn	Ile	Gly	Ile	Cys	Gly	Ala	Tyr	Gly
				85					90					95	
Glu	Asn	Thr	Leu	Asn	Gly	His	Glu	Lys	Glu	Thr	Met	Gln	Phe	Leu	Asn
			100					105					110		
Asp	Arg	Leu	Ala	Asn	Tyr	Leu	Glu	Lys	Val	Arg	Gln	Leu	Glu	Gln	Glu
		115					120					125			
Asn	Ala	Glu	Leu	Glu	Ala	Thr	Leu	Leu	Glu	Arg	Ser	Lys	Cys	His	Glu
	130					135					140				
Ser	Thr	Val	Cys	Pro	Asp	Tyr	Gln	Ser	Tyr	Phe	His	Thr	Ile	Glu	Glu
145					150					155					160
Leu	Gln	Gln	Lys	Ile	Leu	Cys	Ser	Lys	Ala	Glu	Asn	Ala	Arg	Leu	Ile
				165					170					175	
Val	Gln	Ile	Asp	Asn	Ala	Lys	Leu	Ala	Ala	Asp	Asp	Phe	Arg	Ile	Lys
			180					185					190		
Leu	Glu	Ser	Glu	Arg	Ser	Leu	Arg	Gln	Leu	Val	Glu	Ala	Asp	Lys	Cys
		195					200					205			
Gly	Thr	Gln	Lys	Leu	Leu	Asp	Ala	Thr	Leu	Ala	Lys	Ala	Asp	Leu	
	210					215				220					
Glu	Ala	Gln	Gln	Glu	Ser	Leu	Lys	Glu	Glu	Gln	Leu	Ser	Leu	Lys	Ser
225					230					235					240
Asn	His	Glu	Gln	Glu	Val	Lys	Ile	Leu	Arg	Ser	Gln	Leu	Gly	Glu	Lys
				245					250					255	
Leu	Arg	Ile	Glu	Leu	Asp	Ile	Glu	Pro	Thr	Ile	Asp	Leu	Asn	Arg	Val
			260					265					270		
Leu	Gly	Glu	Met	Arg	Ala	Gln	Tyr	Glu	Ala	Met	Leu	Glu	Thr	Asn	Arg
		275					280					285			
Gln	Asp	Val	Glu	Gln	Trp	Phe	Gln	Ala	Gln	Ser	Glu	Gly	Ile	Ser	Leu
	290					295					300				
Gln	Asp	Met	Ser	Cys	Ser	Glu	Glu	Leu	Gln	Cys	Cys	Gln	Ser	Glu	Ile
305					310					315					320
Leu	Glu	Leu	Arg	Cys	Thr	Val	Asn	Ala	Leu	Glu	Val	Glu	Arg	Gln	Ala
				325					330					335	
Gln	His	Thr	Leu	Lys	Asp	Cys	Leu	Gln	Asn	Ser	Leu	Cys	Glu	Ala	Glu
			340					345					350		
Asp	Arg	Phe	Gly	Thr	Glu	Leu	Ala	Gln	Met	Gln	Ser	Leu	Ile	Ser	Asn
		355					360					365			
Val	Glu	Glu	Gln	Leu	Ser	Glu	Ile	Arg	Ala	Asp	Leu	Glu	Arg	Gln	Asn
	370					375					380				
Gln	Glu	Tyr	Gln	Val	Leu	Leu	Asp	Val	Lys	Thr	Arg	Leu	Glu	Asn	Glu
385					390					395					400
Ile	Ala	Thr	Tyr	Arg	Asn	Leu	Leu	Glu	Ser	Glu	Asp	Cys	Lys	Leu	Pro
				405					410					415	
Cys	Asn	Pro	Cys	Ser	Thr	Ser	Pro	Ser	Cys	Val	Thr	Ala	Pro	Cys	Ala
		420						425					430		
Pro	Arg	Pro	Ser	Cys	Gly	Pro	Cys	Thr	Thr	Cys	Gly	Pro	Thr	Cys	Gly
		435					440					445			
Ala	Ser	Thr	Thr	Gly	Ser	Arg	Phe								
	450					455									

<210> 432

<211> 448

<212> PRT

Siemens 0022 Seq Listing.txt

<213> Homo sapiens

<400> 432

```

Met Thr Ser Ser Cys Cys Val Thr Asn Asn Leu Gln Ala Ser Leu Lys
1      5      10      15
Ser Cys Pro Arg Pro Ala Ser Val Cys Ser Ser Gly Val Asn Cys Arg
20     25     30
Pro Glu Leu Cys Leu Gly Tyr Val Cys Gln Pro Met Ala Cys Leu Pro
35     40     45
Ser Val Cys Leu Pro Thr Thr Phe Arg Pro Ala Ser Cys Leu Ser Lys
50     55     60
Thr Tyr Leu Ser Ser Ser Cys Gln Ala Ala Ser Gly Ile Ser Gly Ser
65     70     75     80
Met Gly Pro Gly Ser Trp Tyr Ser Glu Gly Ala Phe Asn Gly Asn Glu
85     90     95
Lys Glu Thr Met Gln Phe Leu Asn Asp Arg Leu Ala Ser Tyr Leu Thr
100    105    110
Arg Val Arg Gln Leu Glu Gln Glu Asn Ala Glu Leu Glu Ser Arg Ile
115    120    125
Gln Glu Ala Ser His Ser Gln Val Leu Thr Met Thr Pro Asp Tyr Gln
130    135    140
Ser His Phe Arg Thr Ile Glu Glu Leu Gln Gln Lys Ile Leu Cys Thr
145    150    155    160
Lys Ala Glu Asn Ala Arg Met Val Val Asn Ile Asp Asn Ala Lys Leu
165    170    175
Ala Ala Asp Asp Phe Arg Ala Lys Tyr Glu Ala Glu Leu Ala Met Arg
180    185    190
Gln Leu Val Glu Ala Asp Ile Asn Gly Leu Arg Arg Ile Leu Asp Asp
195    200    205
Leu Thr Leu Cys Lys Ala Asp Leu Glu Ala Gln Val Glu Ser Leu Lys
210    215    220
Glu Glu Leu Met Cys Leu Lys Lys Asn His Glu Glu Glu Val Gly Ser
225    230    235    240
Leu Arg Cys Gln Leu Gly Asp Arg Leu Asn Ile Glu Val Asp Ala Ala
245    250    255
Pro Pro Val Asp Leu Thr Arg Val Leu Glu Glu Met Arg Cys Gln Tyr
260    265    270
Glu Ala Met Val Glu Ala Asn Arg Arg Asp Val Glu Glu Trp Phe Asn
275    280    285
Met Gln Met Glu Glu Leu Asn Gln Gln Val Ala Thr Ser Ser Glu Gln
290    295    300
Leu Gln Asn Tyr Gln Ser Asp Ile Ile Asp Leu Arg Arg Thr Val Asn
305    310    315    320
Thr Leu Glu Ile Glu Leu Gln Ala Gln His Ser Leu Arg Asp Ser Leu
325    330    335
Glu Asn Thr Leu Thr Glu Ser Glu Ala Arg Tyr Ser Ser Gln Leu Ala
340    345    350
Gln Met Gln Cys Met Ile Thr Asn Val Glu Ala Gln Leu Ala Glu Ile
355    360    365
Arg Ala Asp Leu Glu Arg Gln Asn Gln Glu Tyr Gln Val Leu Leu Asp
370    375    380
Val Arg Ala Arg Leu Glu Gly Glu Ile Asn Thr Tyr Arg Ser Leu Leu
385    390    395    400
Glu Ser Glu Asp Cys Lys Leu Pro Cys Asn Pro Cys Ser Thr Pro Ser
405    410    415
Cys Thr Thr Cys Val Pro Ser Pro Cys Val Thr Arg Thr Val Cys Val
420    425    430
Pro Arg Thr Val Gly Met Pro Cys Ser Pro Cys Pro Gln Gly Arg Tyr
435    440    445

```


Siemens 0022 Seq Listing.txt

<210> 433

<211> 425

<212> PRT

<213> Homo sapiens

<400> 433

```

Met Tyr Ser Ser Ser Cys Lys Leu Pro Ser Leu Ser Pro Val Ala
1      5      10      15
Arg Ser Phe Ser Ala Cys Ser Val Gly Leu Gly Arg Ser Ser Tyr Arg
20      25      30
Ala Thr Ser Cys Leu Pro Ala Leu Cys Leu Pro Ala Gly Gly Phe Ala
35      40      45
Thr Ser Tyr Ser Gly Gly Gly Trp Phe Gly Glu Gly Ile Leu Thr
50      55      60
Gly Asn Glu Lys Glu Thr Met Gln Ser Leu Asn Asp Arg Leu Ala Gly
65      70      75      80
Tyr Leu Glu Lys Val Arg Gln Leu Glu Gln Glu Asn Ala Ser Leu Glu
85      90      95
Ser Arg Ile Arg Glu Trp Cys Glu Gln Val Pro Tyr Met Cys Pro
100     105     110
Asp Tyr Gln Ser Tyr Phe Arg Thr Ile Glu Glu Leu Gln Lys Lys Thr
115     120     125
Leu Cys Ser Lys Ala Glu Asn Ala Arg Leu Val Val Glu Ile Asp Asn
130     135     140
Ala Lys Leu Ala Ala Asp Phe Arg Thr Lys Tyr Glu Thr Glu Val
145     150     155     160
Ser Leu Arg Gln Leu Val Glu Ser Asp Ile Asn Gly Leu Arg Arg Ile
165     170     175
Leu Asp Asp Leu Thr Leu Cys Lys Ser Asp Leu Glu Ala Gln Val Glu
180     185     190
Ser Leu Lys Glu Glu Leu Leu Cys Leu Lys Lys Asn His Glu Glu Glu
195     200     205
Val Asn Ser Leu Arg Cys Gln Leu Gly Asp Arg Leu Asn Val Glu Val
210     215     220
Asp Ala Ala Pro Pro Val Asp Leu Asn Arg Val Leu Glu Glu Met Arg
225     230     235     240
Cys Gln Tyr Glu Thr Leu Val Glu Asn Asn Arg Arg Asp Ala Glu Asp
245     250     255
Trp Leu Asp Thr Gln Ser Glu Glu Leu Asn Gln Gln Val Val Ser Ser
260     265     270
Ser Glu Gln Leu Gln Ser Cys Gln Ala Glu Ile Ile Glu Leu Arg Arg
275     280     285
Thr Val Asn Ala Leu Glu Ile Glu Leu Gln Ala Gln His Ser Met Arg
290     295     300
Asp Ala Leu Glu Ser Thr Leu Ala Glu Thr Glu Ala Arg Tyr Ser Ser
305     310     315     320
Gln Leu Ala Gln Met Gln Cys Met Ile Thr Asn Val Glu Ala Gln Leu
325     330     335
Ala Glu Ile Arg Ala Asp Leu Glu Arg Gln Asn Gln Glu Tyr Gln Val
340     345     350
Leu Leu Asp Val Arg Ala Arg Leu Glu Cys Glu Ile Asn Thr Tyr Arg
355     360     365
Gly Leu Leu Glu Ser Glu Asp Ser Lys Leu Pro Cys Asn Pro Cys Ala
370     375     380
Pro Asp Tyr Ser Pro Ser Lys Ser Cys Leu Pro Cys Leu Pro Ala Ala
385     390     395     400
Ser Cys Gly Pro Ser Ala Ala Arg Thr Asn Cys Ser Pro Arg Pro Ile

```

Cys Val Pro Cys 405
420 Pro Gly Gly Arg Phe
425

<210> 434

<211> 467

<212> PRT

<213> Homo sapiens

<400> 434

Met Ala Thr Gln Thr Cys Thr Pro Thr Phe Ser Thr Gly Ser Ile Lys
1 5 10 15
Gly Leu Cys Gly Thr Ala Gly Gly Ile Ser Arg Val Ser Ser Ile Arg
20 25 30
Ser Val Gly Ser Cys Arg Val Pro Ser Leu Ala Gly Ala Ala Gly Tyr
35 40 45
Ile Ser Ser Ala Arg Ser Gly Leu Ser Gly Leu Gly Ser Cys Leu Pro
50 55 60
Gly Ser Tyr Leu Ser Ser Glu Cys His Thr Ser Gly Phe Val Gly Ser
65 70 75 80
Gly Gly Trp Phe Cys Glu Gly Ser Phe Asn Gly Ser Glu Lys Glu Thr
85 90 95
Met Gln Phe Leu Asn Asp Arg Leu Ala Asn Tyr Leu Glu Lys Val Arg
100 105 110
Gln Leu Glu Arg Glu Asn Ala Glu Leu Glu Ser Arg Ile Gln Glu Trp
115 120 125
Tyr Glu Phe Gln Ile Pro Tyr Ile Cys Pro Asp Tyr Gln Ser Tyr Phe
130 135 140
Lys Thr Ile Glu Asp Phe Gln Gln Lys Ile Leu Leu Thr Lys Ser Glu
145 150 155 160
Asn Ala Arg Leu Val Leu Gln Ile Asp Asn Ala Lys Leu Ala Ala Asp
165 170 175
Asp Phe Arg Thr Lys Tyr Glu Thr Glu Leu Ser Leu Arg Gln Leu Val
180 185 190
Glu Ala Asp Ile Asn Gly Leu Arg Arg Ile Leu Asp Glu Leu Thr Leu
195 200 205
Cys Lys Ala Asp Leu Glu Ala Gln Val Glu Ser Leu Lys Glu Glu Leu
210 215 220
Met Cys Leu Lys Lys Asn His Glu Glu Glu Val Ser Val Leu Arg Cys
225 230 235 240
Gln Leu Gly Asp Arg Leu Asn Val Glu Val Asp Ala Ala Pro Pro Val
245 250 255
Asp Leu Asn Lys Ile Leu Glu Asp Met Arg Cys Gln Tyr Glu Ala Leu
260 265 270
Val Glu Asn Asn Arg Arg Asp Val Glu Ala Trp Phe Asn Thr Gln Thr
275 280 285
Glu Glu Leu Asn Gln Gln Val Val Ser Ser Ser Glu Gln Leu Gln Cys
290 295 300
Cys Gln Thr Glu Ile Ile Glu Leu Arg Arg Thr Val Asn Ala Leu Glu
305 310 315 320
Ile Glu Leu Gln Ala Gln His Ser Met Arg Asn Ser Leu Glu Ser Thr
325 330 335
Leu Ala Glu Thr Glu Ala Arg Tyr Ser Ser Gln Leu Ala Gln Met Gln
340 345 350
Cys Leu Ile Ser Asn Val Glu Ala Gln Leu Ser Glu Ile Arg Cys Asp
355 360 365
Leu Glu Arg Gln Asn Gln Glu Tyr Gln Val Leu Leu Asp Val Lys Ala

Siemens 0022 Seq Listing.txt

```

      370      375      380
Arg Leu Glu Gly Glu Ile Ala Thr Tyr Arg His Leu Leu Glu Gly Glu
385      390      395      400
Asp Cys Lys Leu Pro Pro Gln Pro Cys Ala Thr Ala Cys Lys Pro Val
      405      410      415
Ile Arg Val Pro Ser Val Pro Pro Val Pro Cys Val Pro Ser Val Pro
      420      425      430
Cys Thr Pro Ala Pro Gln Val Gly Thr Gln Ile Arg Thr Ile Thr Glu
      435      440      445
Glu Ile Arg Asp Gly Lys Val Ile Ser Ser Arg Glu His Val Gln Ser
      450      455      460
Arg Pro Leu
465

```

<210> 435

<211> 420

<212> PRT

<213> Homo sapiens

```

<400> 435
Met Ser Leu Arg Leu Gln Ser Ser Ser Ala Ser Tyr Gly Gly Gly Phe
1      5      10      15
Gly Gly Gly Ser Cys Gln Leu Gly Gly Gly Arg Gly Val Ser Thr Cys
      20      25      30
Ser Thr Arg Phe Val Ser Gly Gly Ser Ala Gly Gly Tyr Gly Gly Gly
      35      40      45
Val Ser Cys Gly Phe Gly Gly Gly Ala Gly Ser Gly Phe Gly Gly Gly
      50      55      60
Tyr Gly Gly Gly Leu Gly Gly Gly Tyr Gly Gly Gly Leu Gly Gly Gly
      65      70      75      80
Phe Gly Gly Gly Phe Ala Gly Gly Phe Val Asp Phe Gly Ala Cys Asp
      85      90      95
Gly Gly Leu Leu Thr Gly Asn Glu Lys Ile Thr Met Gln Asn Leu Asn
      100      105      110
Asp Arg Leu Ala Ser Tyr Leu Glu Lys Val Arg Ala Leu Glu Glu Ala
      115      120      125
Asn Ala Asp Leu Glu Val Lys Ile Arg Asp Trp His Leu Lys Gln Ser
      130      135      140
Pro Ala Ser Pro Glu Arg Asp Tyr Ser Pro Tyr Tyr Lys Thr Ile Glu
      145      150      155      160
Glu Leu Arg Asp Lys Ile Leu Thr Ala Thr Ile Glu Asn Asn Arg Val
      165      170      175
Ile Leu Glu Ile Asp Asn Ala Arg Leu Ala Val Asp Asp Phe Arg Leu
      180      185      190
Lys Tyr Glu Asn Glu Leu Ala Leu Arg Gln Ser Val Glu Ala Asp Ile
      195      200      205
Asn Gly Leu Arg Arg Val Leu Asp Glu Leu Thr Leu Ser Lys Thr Asp
      210      215      220
Leu Glu Met Gln Ile Glu Ser Leu Asn Glu Glu Leu Ala Tyr Met Lys
      225      230      235      240
Lys Asn His Glu Glu Glu Met Lys Glu Phe Ser Asn Gln Val Val Gly
      245      250      255
Gln Val Asn Val Glu Met Asp Ala Thr Pro Gly Ile Asp Leu Thr Arg
      260      265      270
Val Leu Ala Glu Met Arg Glu Gln Tyr Glu Ala Met Ala Glu Arg Asn
      275      280      285
Arg Arg Asp Ala Glu Glu Trp Phe His Ala Lys Ser Ala Glu Leu Asn
      290

```

Siemens 0022 Seq Listing.txt

290 295 300
 Lys Glu Val Ser Thr Asn Thr Ala Met Ile Gln Thr Ser Lys Thr Glu
 305 310 315 320
 Ile Thr Glu Leu Arg Arg Thr Leu Gln Gly Leu Glu Ile Glu Leu Gln
 325 330 335
 Ser Gln Leu Ser Met Lys Ala Gly Leu Glu Asn Thr Val Ala Glu Thr
 340 345 350
 Glu Cys Arg Tyr Ala Leu Gln Leu Gln Gln Ile Gln Gly Leu Ile Ser
 355 360 365
 Ser Ile Glu Ala Gln Leu Ser Glu Leu Arg Ser Glu Met Glu Cys Gln
 370 375 380
 Asn Gln Glu Tyr Lys Met Leu Leu Asp Ile Lys Thr Arg Leu Glu Gln
 385 390 395 400
 Glu Ile Ala Thr Tyr Arg Ser Leu Leu Glu Gly Gln Asp Ala Lys Lys
 405 410 415
 Arg Gln Pro Pro
 420

<210> 436

<211> 456

<212> PRT

<213> Homo sapiens

<400> 436

Met Thr Thr Thr Phe Leu Gln Thr Ser Ser Ser Thr Phe Gly Gly Gly
 1 5 10 15
 Ser Thr Arg Gly Gly Ser Leu Leu Ala Gly Gly Gly Gly Phe Gly Gly
 20 25 30
 Gly Ser Leu Ser Gly Gly Gly Gly Ser Arg Ser Ile Ser Ala Ser Ser
 35 40 45
 Ala Arg Phe Val Ser Ser Gly Gly Gly Tyr Gly Gly Gly Met
 50 55 60
 Arg Val Cys Gly Phe Gly Gly Gly Ala Gly Ser Val Phe Gly Gly Gly
 65 70 75 80
 Phe Gly Gly Gly Val Gly Gly Gly Phe Gly Gly Gly Phe Gly Gly Gly
 85 90 95
 Asp Gly Gly Leu Leu Ser Gly Asn Glu Lys Ile Thr Met Gln Asn Leu
 100 105 110
 Asn Asp Arg Leu Ala Ser Tyr Leu Asp Lys Val Arg Ala Leu Glu Glu
 115 120 125
 Ala Asn Ala Asp Leu Glu Val Lys Ile His Asp Trp Tyr Gln Lys Gln
 130 135 140
 Thr Pro Thr Ser Pro Glu Cys Asp Tyr Ser Gln Tyr Phe Lys Thr Ile
 145 150 155 160
 Glu Glu Leu Arg Asp Lys Ile Met Ala Thr Thr Ile Asp Asn Ser Arg
 165 170 175
 Val Ile Leu Glu Ile Asp Asn Ala Arg Leu Ala Ala Asp Asp Phe Arg
 180 185 190
 Leu Lys Tyr Glu Asn Glu Leu Ala Leu Arg Gln Gly Val Glu Ala Asp
 195 200 205
 Ile Asn Gly Leu Arg Arg Val Leu Asp Glu Leu Thr Leu Ala Arg Thr
 210 215 220
 Asp Leu Glu Met Gln Ile Glu Gly Leu Asn Glu Glu Leu Ala Tyr Leu
 225 230 235 240
 Lys Lys Asn His Glu Glu Met Lys Glu Phe Ser Ser Gln Leu Ala
 245 250 255
 Gly Gln Val Asn Val Glu Met Asp Ala Ala Pro Gly Val Asp Leu Thr
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Siemens 0022 Seq Listing.txt

```

      260      265      270
Arg Val Leu Ala Glu Met Arg Glu Gln Tyr Glu Ala Met Ala Glu Lys
      275      280      285
Asn Arg Arg Asp Val Glu Ala Trp Phe Phe Ser Lys Thr Glu Glu Leu
      290      295      300
Asn Lys Glu Val Ala Ser Asn Thr Glu Met Ile Gln Thr Ser Lys Thr
      305      310      315
Glu Ile Thr Asp Leu Arg Arg Thr Met Gln Glu Leu Glu Ile Glu Leu
      320      325      330
Gln Ser Gln Leu Ser Met Lys Ala Gly Leu Glu Asn Ser Leu Ala Glu
      335      340      345
Thr Glu Cys Arg Tyr Ala Thr Gln Leu Gln Gln Ile Gln Gly Leu Ile
      350      355      360
Gly Gly Leu Glu Ala Gln Leu Ser Glu Leu Arg Cys Glu Met Glu Ala
      365      370      375
Gln Asn Gln Glu Tyr Lys Met Leu Leu Asp Ile Lys Thr Arg Leu Glu
      380      385      390
Gln Glu Ile Ala Thr Tyr Arg Ser Leu Leu Glu Gly Gln Asp Ala Lys
      395      400      405
Met Ala Gly Ile Gly Ile Arg Glu Ala Ser Ser Gly Gly Gly Gly Ser
      410      415      420
Ser Ser Asn Phe His Ile Asn Val Glu Glu Ser Val Asp Gly Gln Val
      425      430      435
Val Ser Ser His Lys Arg Glu Ile
      440      445      450

```

<210> 437

<211> 400

<212> PRT

<213> Homo sapiens

<400> 437

```

Met Thr Ser Tyr Ser Tyr Arg Gln Ser Ser Ala Thr Ser Ser Phe Gly
1      5      10      15
Gly Leu Gly Gly Gly Ser Val Arg Phe Gly Pro Gly Val Ala Phe Arg
      20      25      30
Ala Pro Ser Ile His Gly Gly Ser Gly Gly Arg Gly Val Ser Val Ser
      35      40      45
Ser Ala Arg Phe Val Ser Ser Ser Ser Ser Gly Ala Tyr Gly Gly Gly
      50      55      60
Tyr Gly Gly Val Leu Thr Ala Ser Asp Gly Leu Leu Ala Gly Asn Glu
      65      70      75
Lys Leu Thr Met Gln Asn Leu Asn Asp Arg Leu Ala Ser Tyr Leu Asp
      80      85      90
Lys Val Arg Ala Leu Glu Ala Ala Asn Gly Glu Leu Glu Val Lys Ile
      95      100      105
Arg Asp Trp Tyr Gln Lys Gln Gly Pro Gly Pro Ser Arg Asp Tyr Ser
      110      115      120
His Tyr Tyr Thr Thr Ile Gln Asp Leu Arg Asp Lys Ile Leu Gly Ala
      125      130      135
Thr Ile Glu Asn Ser Arg Ile Val Leu Gln Ile Asp Asn Ala Arg Leu
      140      145      150
Ala Ala Asp Asp Phe Arg Thr Lys Phe Glu Thr Glu Gln Ala Leu Arg
      155      160      165
Met Ser Val Glu Ala Asp Ile Asn Gly Leu Arg Arg Val Leu Asp Glu
      170      175      180
Leu Thr Leu Ala Arg Thr Asp Leu Glu Met Gln Ile Glu Gly Leu Lys
      185      190

```

205

<213> Homo sapiens

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Siemens 0022 Seq Listing.txt

```

195
Asp Leu Lys Asp Gln Ile Val 200 Asp Leu Thr Val Gly 205 Asn Asn Lys Thr
210 215 220
Leu Leu Asp Ile Asp Asn Thr Arg Met Thr Leu Asp Asp Phe Arg Ile
225 230 235 240
Lys Phe Glu Met Glu Gln Asn Leu Arg Gln Gly Val Asp Ala Asp Ile
245 250 255
Asn Gly Leu Arg Gln Val Leu Asp Asn Leu Thr Met Glu Lys Ser Asp
260 265 270
Leu Glu Met Gln Tyr Glu Thr Leu Gln Glu Glu Leu Met Ala Leu Lys
275 280 285
Lys Asn His Lys Glu Glu Met Ser Gln Leu Thr Gly Gln Asn Ser Gly
290 295 300
Asp Val Asn Val Glu Ile Asn Val Ala Pro Gly Lys Asp Leu Thr Lys
305 310 315 320
Thr Leu Asn Asp Met Arg Gln Glu Tyr Glu Gln Leu Ile Ala Lys Asn
325 330 335
Arg Lys Asp Ile Glu Asn Gln Tyr Glu Thr Gln Ile Thr Gln Ile Glu
340 345 350
His Glu Val Ser Ser Ser Gly Gln Glu Val Gln Ser Ser Ala Lys Glu
355 360 365
Val Thr Gln Leu Arg His Gly Val Gln Glu Leu Glu Ile Glu Leu Gln
370 375 380
Ser Gln Leu Ser Lys Lys Ala Ala Leu Glu Lys Ser Leu Glu Asp Thr
385 390 395 400
Lys Asn Arg Tyr Cys Gly Gln Leu Gln Met Ile Gln Glu Gln Ile Ser
405 410 415
Asn Leu Glu Ala Gln Ile Thr Asp Val Arg Gln Glu Ile Glu Cys Gln
420 425 430
Asn Gln Glu Tyr Ser Leu Leu Leu Ser Ile Lys Met Arg Leu Glu Lys
435 440 445
Glu Ile Glu Thr Tyr His Asn Leu Leu Glu Gly Gly Gln Glu Asp Phe
450 455 460
Glu Ser Ser Gly Ala Gly Lys Ile Gly Leu Gly Gly Arg Gly Gly Ser
465 470 475 480
Gly Gly Ser Tyr Gly Arg Gly Ser Arg Gly Gly Ser Gly Gly Ser Tyr
485 490 495
Gly Gly Gly Gly Ser Gly Gly Gly Tyr Gly Gly Gly Ser Gly Ser Arg
500 505 510
Gly Gly Ser Gly Gly Ser Tyr Gly Gly Gly Ser Gly Ser Gly Gly Gly
515 520 525
Ser Gly Gly Gly Tyr Gly Gly Ser Gly Gly Gly His Ser Gly Gly
530 535 540
Ser Gly Gly Gly His Ser Gly Gly Ser Gly Gly Asn Tyr Gly Gly Gly
545 550 555 560
Ser Gly Ser Gly Gly Ser Gly Gly Gly Tyr Gly Gly Gly Ser Gly
565 570 575 580
Ser Arg Gly Gly Ser Gly Gly Ser His Gly Gly Gly Ser Gly Phe Gly
585 590 595
Gly Glu Ser Gly Gly Ser Tyr Gly Gly Gly Glu Glu Ala Ser Gly Ser
600 605
Gly Gly Gly Tyr Gly Gly Gly Ser Gly Lys Ser Ser His Ser
610 615 620

```

<210> 439

<211> 472

<212> PRT

<213> Homo sapiens

Siemens 0022 Seq Listing.txt

<400> 439

```

Met Thr Thr Cys Ser Arg Gln Phe Thr Ser Ser Ser Ser Met Lys Gly
1      5      10      15
Ser Cys Gly Ile Gly Gly Gly Ile Gly Gly Gly Ser Ser Arg Ile Ser
20      25      30
ser val Leu Ala Gly Gly Ser Cys Arg Ala Pro Ser Thr Tyr Gly Gly
35      40      45
Gly Leu Ser Val Ser Ser Ser Arg Phe Ser Ser Gly Gly Ala Tyr Gly
50      55      60
Leu Gly Gly Gly Tyr Gly Gly Gly Phe Ser Ser Ser Ser Ser Phe
65      70      75
Gly ser Gly Phe Gly Gly Gly Tyr Gly Gly Leu Gly Ala Gly Leu
85      90      95
Gly Gly Gly Phe Gly Gly Gly Phe Ala Gly Gly Asp Gly Leu Leu Val
100     105
Gly Ser Glu Lys Val Thr Met Gln Asn Leu Asn Asp Arg Leu Ala Ser
115     120
Tyr Leu Asp Lys Val Arg Ala Leu Glu Glu Ala Asn Ala Asp Leu Glu
130     135
Val Lys Ile Arg Asp Trp Tyr Gln Arg Gln Arg Pro Ala Glu Ile Lys
145     150
Asp Tyr Ser Pro Tyr Phe Lys Thr Ile Glu Asp Leu Arg Asn Lys Ile
165     170
Leu Thr Ala Thr Val Asp Asn Ala Asn Val Leu Leu Gln Ile Asp Asn
180     185
Ala Arg Leu Ala Ala Asp Asp Phe Arg Thr Lys Tyr Glu Thr Glu Leu
195     200
Asn Leu Arg Met Ser Val Glu Ala Asp Ile Asn Gly Leu Arg Arg Val
210     215
Leu Asp Glu Leu Thr Leu Ala Arg Ala Asp Leu Glu Met Gln Ile Glu
225     230
Ser Leu Lys Glu Glu Leu Ala Tyr Leu Lys Lys Asn His Glu Glu Glu
245     250
Met Asn Ala Leu Arg Gly Gln Val Gly Gly Asp Val Asn Val Glu Met
260     265
Asp Ala Ala Pro Gly Val Asp Leu Ser Arg Ile Leu Asn Glu Met Arg
275     280
Asp Gln Tyr Glu Lys Met Ala Glu Lys Asn Arg Lys Asp Ala Glu Glu
290     295
Trp Phe Phe Thr Lys Thr Glu Glu Leu Asn Arg Glu Val Ala Thr Asn
305     310
Ser Glu Leu Val Gln Ser Gly Lys Ser Glu Ile Ser Glu Leu Arg Arg
325     330
Thr Met Gln Asn Leu Glu Ile Glu Leu Gln Ser Gln Leu Ser Met Lys
340     345
Ala Ser Leu Glu Asn Ser Leu Glu Glu Thr Lys Gly Arg Tyr Cys Met
355     360
Gln Leu Ala Gln Ile Gln Glu Met Ile Gly Ser Val Glu Glu Gln Leu
370     375
Ala Gln Leu Arg Cys Glu Met Glu Gln Gln Asn Gln Glu Tyr Lys Ile
385     390
Leu Leu Asp Val Lys Thr Arg Leu Glu Gln Glu Ile Ala Thr Tyr Arg
405     410
Arg Leu Leu Glu Gly Glu Asp Ala His Leu Ser Ser Ser Gln Phe Ser
420     425
Ser Gly Ser Gln Ser Ser Arg Asp Val Thr Ser Ser Ser Arg Gln Ile
435     440
Arg Thr Lys Val Met Asp Val His Asp Gly Lys Val Val Ser Thr His
450     455
Glu Gln Val Leu Arg Thr Lys Asn
465     470

```


Siemens 0022 Seq Listing.txt

<210> 440

<211> 473

<212> PRT

<213> Homo sapiens

<400> 440

```

Met Thr Thr Cys Ser Arg Gln Phe Thr Ser Ser Ser Ser Met Lys Gly
1      5      10      15
Ser Cys Gly Ile Gly Gly Gly Ile Gly Gly Gly Ser Ser Arg Ile Ser
      20      25      30
Ser Val Leu Ala Gly Gly Ser Cys Arg Ala Pro Ser Thr Tyr Gly Gly
      35      40      45
Gly Leu Ser Val Ser Ser Arg Phe Ser Ser Gly Gly Ala Cys Gly Leu
      50      55      60
Gly Gly Gly Tyr Gly Gly Gly Phe Ser Ser Ser Ser Ser Phe Gly Ser
      65      70      75      80
Gly Phe Gly Gly Tyr Gly Gly Gly Leu Gly Ala Gly Phe Gly Gly
      85      90      95
Gly Leu Gly Ala Gly Phe Gly Gly Gly Phe Ala Gly Gly Asp Gly Leu
      100      105      110
Leu Val Gly Ser Glu Lys Val Thr Met Gln Asn Leu Asn Asp Arg Leu
      115      120      125
Ala Ser Tyr Leu Asp Lys Val Arg Ala Leu Glu Glu Ala Asn Ala Asp
      130      135      140
Leu Glu Val Lys Ile Arg Asp Trp Tyr Gln Arg Gln Arg Pro Ser Glu
      145      150      155      160
Ile Lys Asp Tyr Ser Pro Tyr Phe Lys Thr Ile Glu Asp Leu Arg Asn
      165      170      175
Lys Ile Ile Ala Thr Ile Glu Asn Ala Gln Pro Ile Leu Gln Ile
      180      185      190
Asp Asn Ala Arg Leu Ala Ala Asp Phe Arg Thr Lys Tyr Glu His
      195      200      205
Glu Leu Ala Leu Arg Gln Thr Val Glu Ala Asp Val Asn Gly Leu Arg
      210      215      220
Arg Val Leu Asp Glu Leu Thr Leu Ala Arg Thr Asp Leu Glu Met Gln
      225      230      235      240
Ile Glu Gly Leu Lys Glu Glu Leu Ala Tyr Leu Arg Lys Asn His Glu
      245      250      255
Glu Glu Met Leu Ala Leu Arg Gly Gln Thr Gly Gly Asp Val Asn Val
      260      265      270
Glu Met Asp Ala Ala Pro Gly Val Asp Leu Ser Arg Ile Leu Asn Glu
      275      280      285
Met Arg Asp Gln Tyr Glu Gln Met Ala Glu Lys Asn Arg Arg Asp Ala
      290      295      300
Glu Thr Trp Phe Leu Ser Lys Thr Glu Glu Leu Asn Lys Glu Val Ala
      305      310      315      320
Ser Asn Ser Glu Leu Val Gln Ser Ser Arg Ser Glu Val Thr Glu Leu
      325      330      335
Arg Arg Val Leu Gln Gly Leu Glu Ile Glu Leu Gln Ser Gln Leu Ser
      340      345      350
Met Lys Ala Ser Leu Glu Asn Ser Leu Glu Glu Thr Lys Gly Arg Tyr
      355      360      365
Cys Met Gln Leu Ser Gln Ile Gln Gly Leu Ile Gly Ser Val Glu Glu
      370      375      380
Gln Leu Ala Gln Leu Arg Cys Glu Met Glu Gln Gln Ser Gln Glu Tyr
      385      390      395      400

```

Siemens 0022 Seq Listing.txt

Gln Ile Leu Leu Asp Val Lys Thr Arg Leu Glu Gln Glu Ile Ala Thr
 405 410 415
 Tyr Arg Arg Leu Leu Glu Gly Glu Asp Ala His Leu Ser Ser Gln Gln
 420 425 430
 Ala Ser Gly Gln Ser Tyr Ser Ser Arg Glu Val Phe Thr Ser Ser Ser
 435 440 445
 Ser Ser Ser Ser Arg Gln Thr Arg Pro Ile Leu Lys Glu Gln Ser Ser
 450 455 460
 Ser Ser Phe Ser Gln Gly Gln Ser Ser
 465 470

<210> 441

<211> 432

<212> PRT

<213> Homo sapiens

<400> 441

Met Thr Thr Ser Ile Arg Gln Phe Thr Ser Ser Ser Ser Ile Lys Gly
 1 5 10 15
 Ser Ser Gly Leu Gly Gly Gly Ser Ser Arg Thr Ser Cys Arg Leu Ser
 20 25 30
 Gly Gly Leu Gly Ala Gly Ser Cys Arg Leu Gly Ser Ala Gly Gly Leu
 35 40 45
 Gly Ser Thr Leu Gly Gly Ser Tyr Ser Ser Cys Tyr Ser Phe Gly
 50 55 60
 Ser Gly Gly Gly Tyr Gly Ser Ser Phe Gly Gly Val Asp Gly Leu Leu
 65 70 75 80
 Ala Gly Gly Glu Lys Ala Thr Met Gln Asn Leu Asn Asp Arg Leu Ala
 85 90 95
 Ser Tyr Leu Asp Lys Val Arg Ala Leu Glu Glu Ala Asn Thr Glu Leu
 100 105 110
 Glu Val Lys Ile Arg Asp Trp Tyr Gln Arg Gln Ala Pro Gly Pro Ala
 115 120 125
 Arg Asp Tyr Ser Gln Tyr Tyr Arg Thr Ile Glu Glu Leu Gln Asn Lys
 130 135 140
 Ile Leu Thr Ala Thr Val Asp Asn Ala Asn Ile Leu Leu Gln Ile Asp
 145 150 155 160
 Asn Ala Arg Leu Ala Ala Asp Asp Phe Arg Thr Lys Phe Glu Thr Glu
 165 170 175
 Gln Ala Leu Arg Leu Ser Val Glu Ala Asp Ile Asn Gly Leu Arg Arg
 180 185 190
 Val Leu Asp Glu Leu Thr Leu Ala Arg Ala Asp Leu Glu Met Gln Ile
 195 200 205
 Glu Asn Leu Lys Glu Glu Leu Ala Tyr Leu Lys Lys Asn His Glu Glu
 210 215 220
 Glu Met Asn Ala Leu Arg Gly Gln Val Gly Gly Glu Ile Asn Val Glu
 225 230 235 240
 Met Asp Ala Ala Pro Gly Val Asp Leu Ser Arg Ile Leu Asn Glu Met
 245 250 255
 Arg Asp Gln Tyr Glu Lys Met Ala Glu Lys Asn Arg Lys Asp Ala Glu
 260 265 270
 Asp Trp Phe Phe Ser Lys Thr Glu Glu Leu Asn Arg Glu Val Ala Thr
 275 280 285
 Asn Ser Glu Leu Val Gln Ser Gly Lys Ser Glu Ile Ser Glu Leu Arg
 290 295 300
 Arg Thr Met Gln Ala Leu Glu Ile Glu Leu Gln Ser Gln Leu Ser Met
 305 310 315 320

Siemens 0022 Seq Listing.txt

Lys Ala Ser Leu Glu Gly Asn Leu Ala Glu Thr Glu Asn Arg Tyr Cys
 325 330 335
 Val Gln Leu Ser Gln Ile Gln Gly Leu Ile Gly Ser Val Glu Glu Gln
 340 345 350
 Leu Ala Gln Leu Arg Cys Glu Met Glu Gln Gln Asn Gln Glu Tyr Lys
 355 360 365
 Ile Leu Leu Asp Val Lys Thr Arg Leu Glu Gln Glu Ile Ala Thr Tyr
 370 375 380
 Arg Arg Leu Leu Glu Gly Glu Asp Ala His Leu Thr Gln Tyr Lys Lys
 385 390 395 400
 Glu Pro Val Thr Thr Arg Gln Val Arg Thr Ile Val Glu Glu Val Gln
 405 410 415
 Asp Gly Lys Val Ile Ser Ser Arg Glu Gln Val His Gln Thr Thr Arg
 420 425 430

<210> 442

<211> 469

<212> PRT

<213> Homo sapiens

<400> 442

Met Ser Ile His Phe Ser Ser Pro Val Phe Thr Ser Arg Ser Ala Ala
 1 5 10 15
 Phe Ser Gly Arg Gly Ala Gln Val Arg Leu Ser Ser Ala Arg Pro Gly
 20 25 30
 Gly Leu Gly Ser Ser Ser Leu Tyr Gly Leu Gly Ala Ser Arg Pro Arg
 35 40 45
 Val Ala Val Arg Ser Ala Tyr Gly Gly Pro Val Gly Ala Gly Ile Arg
 50 55 60
 Glu Val Thr Ile Asn Gln Ser Leu Leu Ala Pro Leu Arg Leu Asp Ala
 65 70 75 80
 Asp Pro Ser Leu Gln Arg Val Arg Gln Glu Ser Glu Gln Ile Lys
 85 90 95
 Thr Leu Asn Asn Lys Phe Ala Ser Phe Ile Asp Lys Val Arg Phe Leu
 100 105 110
 Glu Gln Gln Asn Lys Leu Leu Glu Thr Lys Trp Thr Leu Leu Gln Glu
 115 120 125
 Gln Lys Ser Ala Lys Ser Ser Arg Leu Pro Asp Ile Phe Glu Ala Gln
 130 135 140
 Ile Ala Gly Leu Arg Gly Gln Leu Glu Ala Leu Gln Val Asp Gly Gly
 145 150 155 160
 Arg Leu Glu Ala Glu Leu Arg Ser Met Gln Asp Val Val Glu Asp Phe
 165 170 175
 Lys Asn Lys Tyr Glu Asp Glu Ile Asn Arg Arg Thr Ala Ala Glu Asn
 180 185 190
 Glu Phe Val Val Leu Lys Lys Asp Val Asp Ala Ala Tyr Met Ser Lys
 195 200 205
 Val Glu Leu Glu Ala Lys Val Asp Ala Leu Asn Asp Glu Ile Asn Phe
 210 215 220
 Leu Arg Thr Leu Asn Glu Thr Glu Leu Thr Glu Gln Ser Gln Ile
 225 230 235 240
 Ser Asp Thr Ser Val Val Leu Ser Met Asp Asn Ser Arg Ser Leu Asp
 245 250 255
 Leu Asp Gly Ile Ile Ala Glu Val Lys Ala Gln Tyr Glu Glu Met Ala
 260 265 270
 Lys Cys Ser Arg Ala Glu Ala Glu Ala Trp Tyr Gln Thr Lys Phe Glu
 275 280 285

Siemens 0022 Seq Listing.txt

```

Thr  Leu  Gln  Ala  Gln  Ala  Gly  Lys  His  Gly  Asp  Asp  Leu  Arg  Asn  Thr
290  295  300
Arg  Asn  Glu  Ile  Ser  Glu  Met  Asn  Arg  Ala  Ile  Gln  Arg  Leu  Gln  Ala
305  310  315  320
Glu  Ile  Asp  Asn  Ile  Lys  Asn  Gln  Arg  Ala  Lys  Leu  Glu  Ala  Ala  Ile
325  330  335
Ala  Glu  Ala  Glu  Glu  Arg  Gly  Glu  Leu  Ala  Leu  Lys  Asp  Ala  Arg  Ala
340  345  350
Lys  Gln  Glu  Glu  Leu  Glu  Ala  Ala  Leu  Gln  Arg  Ala  Lys  Gln  Asp  Met
355  360  365
Ala  Arg  Gln  Leu  Arg  Glu  Tyr  Gln  Glu  Leu  Met  Ser  Val  Lys  Leu  Ala
370  375  380
Leu  Asp  Ile  Glu  Ile  Ala  Thr  Tyr  Arg  Lys  Leu  Leu  Glu  Gly  Glu  Glu
385  390  395  400
Ser  Arg  Leu  Ala  Gly  Asp  Gly  Val  Gly  Ala  Val  Asn  Ile  Ser  Val  Met
405  410  415
Asn  Ser  Thr  Gly  Gly  Ser  Ser  Ser  Gly  Gly  Gly  Ile  Gly  Leu  Thr  Leu
420  425  430
Gly  Gly  Thr  Met  Gly  Ser  Asn  Ala  Leu  Ser  Phe  Ser  Ser  Ala  Gly
435  440  445
Pro  Gly  Leu  Leu  Lys  Ala  Tyr  Ser  Ile  Arg  Thr  Ala  Ser  Ala  Ser  Arg
450  455  460
Arg  Ser  Ala  Arg  Asp
465

```

<210> 443

<211> 486

<212> PRT

<213> Homo sapiens

50 . 1

<400> 443

```

Met  Thr  Cys  Gly  Ser  Tyr  Cys  Gly  Gly  Arg  Ala  Phe  Ser  Cys  Ile  Ser
1      5      10      15
Ala  Cys  Gly  Pro  Arg  Pro  Gly  Arg  Cys  Cys  Ile  Thr  Ala  Ala  Pro  Tyr
20      25      30
Arg  Gly  Ile  Ser  Cys  Tyr  Arg  Gly  Leu  Thr  Gly  Gly  Phe  Gly  Ser  His
35      40      45
Ser  Val  Cys  Gly  Gly  Phe  Arg  Ala  Gly  Ser  Cys  Gly  Arg  Ser  Phe  Gly
50      55      60
Tyr  Arg  Ser  Gly  Gly  Val  Cys  Gly  Pro  Ser  Pro  Pro  Cys  Ile  Thr  Thr
65      70      75      80
Val  Ser  Val  Asn  Glu  Ser  Leu  Leu  Thr  Pro  Leu  Asn  Leu  Glu  Ile  Asp
85      90      95
Pro  Asn  Ala  Gln  Cys  Val  Lys  Gln  Glu  Lys  Glu  Gln  Ile  Lys  Ser
100     105     110
Leu  Asn  Ser  Arg  Phe  Ala  Ala  Phe  Ile  Asp  Lys  Val  Arg  Phe  Leu  Glu
115     120     125
Gln  Gln  Asn  Lys  Leu  Leu  Glu  Thr  Lys  Leu  Gln  Phe  Tyr  Gln  Asn  Arg
130     135     140
Glu  Cys  Cys  Gln  Ser  Asn  Leu  Glu  Pro  Leu  Phe  Glu  Gly  Tyr  Ile  Glu
145     150     155     160
Thr  Leu  Arg  Arg  Glu  Ala  Glu  Cys  Val  Glu  Ala  Asp  Ser  Gly  Arg  Leu
165     170     175
Ala  Ser  Glu  Leu  Asn  His  Val  Gln  Glu  Val  Leu  Glu  Gly  Tyr  Lys  Lys
180     185     190
Lys  Tyr  Glu  Glu  Val  Ser  Leu  Arg  Ala  Thr  Ala  Glu  Asn  Glu  Phe
195     200     205

```

Siemens 0022 Seq Listing.txt

```

Val Ala Leu Lys Lys Asp Val Asp Cys Ala Tyr Leu Arg Lys Ser Asp
210 215 220
Leu Glu Ala Asn Val Glu Ala Leu Ile Gln Glu Ile Asp Phe Leu Arg
225 230 235 240
Arg Leu Tyr Glu Glu Glu Ile Arg Val Leu Gln Ser His Ile Ser Asp
245 250 255
Thr Ser Val Val Lys Leu Asp Asn Ser Arg Asp Leu Asn Met Asp
260 265 270
Cys Ile Ile Ala Glu Ile Lys Ala Gln Tyr Asp Asp Ile Val Thr Arg
275 280 285
Ser Arg Ala Glu Ala Glu Ser Trp Tyr Arg Ser Lys Cys Glu Glu Met
290 295 300
Lys Ala Thr Val Ile Arg His Gly Glu Thr Leu Arg Arg Thr Lys Glu
305 310 315 320
Glu Ile Asn Glu Leu Asn Arg Met Ile Gln Arg Leu Thr Ala Glu Val
325 330 335
Glu Asn Ala Lys Cys Gln Asn Ser Lys Leu Glu Ala Ala Val Ala Gln
340 345 350
Ser Glu Gln Gln Gly Glu Ala Ala Leu Ser Asp Ala Arg Cys Lys Leu
355 360 365
Ala Glu Leu Glu Gly Ala Leu Gln Lys Ala Lys Gln Asp Met Ala Cys
370 375 380
Leu Ile Arg Glu Tyr Gln Glu Val Met Asn Ser Lys Leu Gly Leu Asp
385 390 395 400
Ile Glu Ile Ala Thr Tyr Arg Arg Leu Leu Glu Gly Glu Gln Arg
405 410 415
Leu Cys Glu Gly Val Gly Ser Val Asn Val Cys Val Ser Ser Arg
420 425 430
Gly Gly Val Val Cys Gly Asp Leu Cys Ala Ser Thr Thr Ala Pro Val
435 440 445
Val Ser Thr Arg Val Ser Ser Val Pro Ser Asn Ser Asn Val Val Val
450 455 460
Gly Thr Thr Asn Ala Cys Ala Pro Ser Ala Arg Val Gly Val Cys Gly
465 470 475 480
Gly Ser Cys Lys Arg Cys
485

```

<210> 444

<211> 111

<212> PRT

<213> Homo sapiens

<400> 444

```

Met Lys Ala Thr Val Ile Trp His Gly Glu Thr Val Gly Cys Thr Lys
1 5 10 15
Glu Glu Ile Lys Glu Leu Thr His Met Ile Gln Arg Leu Met Ala Lys
20 25 30
Val Glu Asn Ala Lys Cys Gln Val Trp Gly Ile Cys Ala Gln Gly Gln
35 40 45
Arg Asp Leu Trp Pro Asn Leu Cys His Thr Ala Tyr Val Cys Pro Thr
50 55 60
Trp Ile Ser Ala Phe Ile Leu Gln Ser Leu Cys Pro Cys Arg Val Pro
65 70 75 80
Gly Cys Gly Gln Ser Gly Ser Ala Arg Met Met Lys Ala Arg Gly Leu
85 90 95
Phe Leu Arg Cys Ser Gln Leu Asn Gly Arg Leu Asp Ile Phe Arg
100 105 110

```

Siemens 0022 Seq Listing.txt

<210> 445

<211> 505

<212> PRT

<213> Homo sapiens

<400> 445

```

Met Thr Cys Gly Ser Gly Phe Gly Gly Arg Ala Phe Ser Cys Ile Ser
1      5      10      15
Ala Cys Gly Pro Arg Pro Gly Arg Cys Cys Ile Thr Ala Ala Pro Tyr
20      25      30
Arg Gly Ile Ser Cys Tyr Arg Gly Leu Thr Gly Gly Phe Gly Ser His
35      40      45
Ser Val Cys Gly Gly Phe Arg Ala Gly Ser Cys Gly Arg Ser Phe Gly
50      55      60
Tyr Arg Ser Gly Gly Val Cys Gly Pro Ser Pro Pro Cys Ile Thr Thr
65      70      75      80
Val Ser Val Asn Glu Ser Leu Leu Thr Pro Leu Asn Leu Glu Ile Asp
85      90      95
Pro Asn Ala Gln Cys Val Lys Gln Glu Lys Glu Gln Ile Lys Ser
100     105     110
Leu Asn Ser Arg Phe Ala Ala Phe Ile Asp Lys Val Arg Phe Leu Glu
115     120     125
Gln Gln Asn Lys Leu Leu Glu Thr Lys Leu Gln Phe Tyr Gln Asn Arg
130     135     140
Glu Cys Cys Gln Ser Asn Leu Glu Pro Leu Phe Glu Gly Tyr Ile Glu
145     150     155     160
Thr Leu Arg Arg Glu Ala Glu Cys Val Glu Ala Asp Ser Gly Arg Leu
165     170     175
Ala Ser Glu Leu Asn His Val Gln Glu Val Leu Glu Gly Tyr Lys Lys
180     185     190
Lys Tyr Glu Glu Glu Val Ser Leu Arg Ala Thr Ala Glu Asn Glu Phe
195     200     205
Val Ala Leu Lys Lys Asp Val Asp Cys Ala Tyr Leu Arg Lys Ser Asp
210     215     220
Leu Glu Ala Asn Val Glu Ala Leu Ile Gln Glu Ile Asp Phe Leu Arg
225     230     235     240
Arg Leu Tyr Glu Glu Ile Arg Ile Leu Gln Ser His Ile Ser Asp
245     250     255
Thr Ser Val Val Val Lys Leu Asp Asn Ser Arg Asp Leu Asn Met Asp
260     265     270
Cys Ile Ile Ala Glu Ile Lys Ala Gln Tyr Asp Asp Ile Val Thr Arg
275     280     285
Ser Arg Ala Glu Ala Glu Ser Trp Tyr Arg Ser Lys Cys Glu Glu Met
290     295     300
Lys Ala Thr Val Ile Arg His Gly Glu Thr Leu Arg Arg Thr Lys Glu
305     310     315     320
Glu Ile Asn Glu Leu Asn Arg Met Ile Gln Arg Leu Thr Ala Glu Val
325     330     335
Glu Asn Ala Lys Cys Gln Asn Ser Lys Leu Glu Ala Ala Val Ala Gln
340     345     350
Ser Glu Gln Gln Gly Glu Ala Ala Leu Ser Asp Ala Arg Cys Lys Leu
355     360     365
Ala Glu Leu Glu Gly Ala Leu Gln Lys Ala Lys Gln Asp Met Ala Cys
370     375     380
Leu Ile Arg Glu Tyr Gln Glu Val Met Asn Ser Lys Leu Gly Leu Asp
385     390     395     400

```

Siemens 0022 Seq Listing.txt

Ile Glu Ile Ala Thr Tyr Arg Arg Leu Leu Glu Gly Glu Glu Gln Arg
 405 410 415
 Leu Cys Glu Gly Ile Gly Ala Val Asn Val Cys Val Ser Ser Ser Arg
 420 425 430
 Gly Gly Val Val Cys Gly Asp Leu Cys Val Ser Gly Ser Arg Pro Val
 435 440 445
 Thr Gly Ser Val Cys Ser Ala Pro Cys Asn Gly Asn Val Ala Val Ser
 450 455 460
 Thr Gly Leu Cys Ala Pro Cys Gly Gln Leu Asn Thr Thr Cys Gly Gly
 465 470 475 480
 Gly Ser Cys Gly Val Gly Ser Cys Gly Ile Ser Ser Leu Gly Val Gly
 485 490 495
 Ser Cys Gly Ser Cys Arg Lys Cys
 500 505

<210> 446

<211> 486

<212> PRT

<213> Homo sapiens

<400> 446

Met Thr Cys Gly Ser Tyr Cys Gly Gly Arg Ala Phe Ser Cys Ile Ser
 1 5 10 15
 Ala Cys Gly Pro Arg Pro Gly Arg Cys Cys Ile Thr Ala Ala Pro Tyr
 20 25 30
 Arg Gly Ile Ser Cys Tyr Arg Gly Leu Thr Gly Gly Phe Gly Ser His
 35 40 45
 Ser Val Cys Gly Gly Phe Arg Ala Gly Ser Cys Gly Arg Ser Phe Gly
 50 55 60
 Tyr Arg Ser Gly Gly Val Cys Gly Pro Ser Pro Cys Ile Thr Thr
 65 70 75 80
 Val Ser Val Asn Glu Ser Leu Leu Thr Pro Leu Asn Leu Glu Ile Asp
 85 90 95
 Pro Asn Ala Gln Cys Val Lys Gln Glu Glu Lys Glu Gln Ile Lys Ser
 100 105 110
 Leu Asn Ser Arg Phe Ala Ala Phe Ile Asp Lys Val Arg Phe Leu Glu
 115 120 125
 Gln Gln Asn Lys Leu Leu Glu Thr Lys Leu Gln Phe Tyr Gln Asn Arg
 130 135 140
 Glu Cys Cys Gln Ser Asn Leu Glu Pro Leu Phe Glu Gly Tyr Ile Glu
 145 150 155 160
 Thr Leu Arg Arg Glu Ala Glu Cys Val Glu Ala Asp Ser Gly Arg Leu
 165 170 175
 Ala Ser Glu Leu Asn His Val Gln Glu Val Leu Glu Gly Tyr Lys Lys
 180 185 190
 Lys Tyr Glu Glu Glu Val Ser Leu Arg Ala Thr Ala Glu Asn Glu Phe
 195 200 205
 Val Ala Leu Lys Lys Asp Val Asp Cys Ala Tyr Leu Arg Lys Ser Asp
 210 215 220
 Leu Glu Ala Asn Val Glu Ala Leu Ile Gln Glu Ile Asp Phe Leu Arg
 225 230 235 240
 Arg Leu Tyr Glu Glu Glu Ile Arg Val Leu Gln Ser His Ile Ser Asp
 245 250 255
 Thr Ser Val Val Lys Leu Asp Asn Ser Arg Asp Leu Asn Met Asp
 260 265 270
 Cys Ile Ile Ala Glu Ile Lys Ala Gln Tyr Asp Asp Ile Val Thr Arg
 275 280 285

Siemens 0022 Seq Listing.txt

```

Ser Arg Ala Glu Ala Glu Ser Trp Tyr Arg Ser Lys Cys Glu Glu Met
290 295 300
Lys Ala Thr Val Ile Arg His Gly Glu Thr Leu Arg Arg Thr Lys Glu
305 310 315 320
Glu Ile Asn Glu Leu Asn Arg Met Ile Gln Arg Leu Thr Ala Glu Val
325 330 335
Glu Asn Ala Lys Cys Gln Asn Ser Lys Leu Glu Ala Ala Val Ala Gln
340 345 350
Ser Glu Gln Gln Gly Glu Ala Ala Leu Ser Asp Ala Arg Cys Lys Leu
355 360 365
Ala Glu Leu Glu Gly Ala Leu Gln Lys Ala Lys Gln Asp Met Ala Cys
370 375 380
Leu Ile Arg Glu Tyr Gln Glu Val Met Asn Ser Lys Leu Gly Leu Asp
385 390 395 400
Ile Glu Ile Ala Thr Tyr Arg Arg Leu Leu Glu Gly Glu Glu Gln Arg
405 410 415
Leu Cys Glu Gly Val Gly Ser Val Asn Val Cys Val Ser Ser Ser Arg
420 425 430
Gly Gly Val Val Cys Gly Asp Leu Cys Ala Ser Thr Thr Ala Pro Val
435 440 445
Val Ser Thr Arg Val Ser Ser Val Pro Ser Asn Ser Asn Val Val Val
450 455 460
Gly Thr Thr Asn Ala Cys Ala Pro Ser Ala Arg Val Gly Val Cys Gly
465 470 475 480
Gly Ser Cys Lys Arg Cys
485

```

<210> 447

<211> 493

<212> PRT

<213> Homo sapiens

<400> 447

```

Met Thr Cys Gly Phe Asn Ser Ile Gly Cys Gly Phe Arg Pro Gly Asn
1 5 10 15
Phe Ser Cys Val Ser Ala Cys Gly Pro Arg Pro Ser Arg Cys Cys Ile
20 25 30
Thr Ala Ala Pro Tyr Arg Gly Ile Ser Cys Tyr Arg Gly Leu Thr Gly
35 40 45
Gly Phe Gly Ser His Ser Val Cys Gly Gly Phe Arg Ala Gly Ser Cys
50 55 60
Gly Arg Ser Phe Gly Tyr Arg Ser Gly Gly Val Cys Gly Pro Ser Pro
65 70 75 80
Pro Cys Ile Thr Thr Val Ser Val Asn Glu Ser Leu Leu Thr Pro Leu
85 90 95
Asn Leu Glu Ile Asp Pro Asn Ala Gln Cys Val Lys Gln Glu Glu Lys
100 105 110
Glu Gln Ile Lys Ser Leu Asn Ser Arg Phe Ala Ala Phe Ile Asp Lys
115 120 125
Val Arg Phe Leu Glu Gln Gln Asn Lys Leu Leu Glu Thr Lys Leu Gln
130 135 140
Phe Tyr Gln Asn Cys Glu Cys Cys Gln Ser Asn Leu Glu Pro Leu Phe
145 150 155 160
Ala Gly Tyr Ile Glu Thr Leu Arg Arg Glu Ala Glu Cys Val Glu Ala
165 170 175
Asp Ser Gly Arg Leu Ala Ser Glu Leu Asn His Val Gln Glu Val Leu
180 185 190

```


Siemens 0022 Seq Listing.txt

```

Glu Gly Tyr Lys Lys Lys Tyr Glu Glu Glu Val Ala Leu Arg Ala Thr
195 200 205
Ala Glu Asn Glu Phe Val Ala Leu Lys Lys Asp Val Asp Cys Ala Tyr
210 215 220
Leu Arg Lys Ser Asp Leu Glu Ala Asn Val Glu Ala Leu Ile Gln Glu
225 230 235
Ile Asp Phe Leu Arg Leu Tyr Glu Glu Ile Arg Ile Leu Gln
245 250 255
Ser His Ile Ser Asp Thr Ser Val Val Val Lys Leu Asp Asn Ser Arg
260 265 270
Asp Leu Asn Met Asp Cys Ile Val Ala Glu Ile Lys Ala Gln Tyr Asp
275 280 285
Asp Ile Ala Thr Arg Ser Arg Ala Glu Ala Glu Ser Trp Tyr Arg Ser
290 295 300
Lys Cys Glu Glu Met Lys Ala Thr Val Ile Arg His Gly Glu Thr Leu
305 310 315
Arg Arg Thr Lys Glu Glu Ile Asn Glu Leu Asn Arg Met Ile Gln Arg
325 330 335
Leu Thr Ala Glu Val Glu Asn Ala Lys Cys Gln Asn Ser Lys Leu Glu
340 345 350
Ala Ala Val Ala Gln Ser Glu Gln Gln Gly Glu Ala Ala Leu Ser Asp
355 360 365
Ala Arg Cys Lys Leu Ala Glu Leu Glu Gly Ala Leu Gln Lys Ala Lys
370 375 380
Gln Asp Met Ala Cys Leu Ile Arg Glu Tyr Gln Glu Val Met Asn Ser
385 390 395
Lys Leu Gly Leu Asp Ile Glu Ile Ala Thr Tyr Arg Arg Leu Leu Glu
405 410 415
Gly Glu Glu Gln Arg Leu Cys Glu Gly Val Glu Ala Val Asn Val Cys
420 425 430
Val Ser Ser Ser Arg Gly Gly Val Val Cys Gly Asp Leu Cys Val Ser
435 440 445
Gly Ser Arg Pro Val Thr Gly Ser Val Cys Ser Ala Pro Cys Asn Gly
450 455 460
Asn Leu Val Val Ser Thr Gly Leu Cys Lys Pro Cys Gly Gln Leu Asn
465 470 475
Thr Thr Cys Gly Gly Ser Cys Gly Gln Gly Arg Tyr
485 490

```

<210> 448

<211> 143

<212> PRT

<213> Homo sapiens

<400> 448

```

Met Ala Ser Gln Ser Cys His Ile Ser Ser Gly Cys Gly Val Lys Asn
1 5 10 15
Phe Ser Ser Arg Ser Ala Thr Val Pro Lys Pro Gly Tyr His Ser Cys
20 25 30
Val Ser Ala Met Ala His His Gly Val Ser Pro Gly Gly Leu Gly Ser
35 40 45
Arg Arg Leu Gly Gly Phe Gly Ser Gln Ser Leu Cys Thr Val Gly Ser
50 55 60
Pro Arg Ile Ala Val Ser Cys Arg Trp Pro Leu His Ser Arg Gly Arg
65 70 75 80
Phe Gly Tyr Trp Ala Gly Gly Leu Cys Arg Pro Ser Pro Pro Arg Ile
85 90 95

```

Siemens 0022 Seq Listing.txt

Thr Ser Val Thr Ile Asn Glu Ser Leu Leu Met Pro Leu Asn Leu Glu
 100 105 110
 Ile Asp Pro Asn Ala Gln Cys Val Lys His Glu Glu Lys Glu His Ile
 115 120 125
 Arg Cys Leu Asn Lys Phe Ala Ala Phe Ile Asp Lys Val Gly Leu
 130 135 140

<210> 449

<211> 507

<212> PRT

<213> Homo sapiens

<400> 449

Met Ser Cys Arg Ser Tyr Arg Ile Ser Ser Gly Cys Gly Val Thr Arg
 1 5 10 15
 Asn Phe Ser Ser Cys Ser Ala Val Ala Pro Lys Thr Gly Asn Arg Cys
 20 25 30
 Cys Ile Ser Ala Ala Pro Tyr Arg Gly Val Ser Cys Tyr Arg Gly Leu
 35 40 45
 Thr Gly Phe Gly Ser Arg Ser Leu Cys Asn Leu Gly Ser Cys Gly Pro
 50 55 60
 Arg Ile Ala Val Gly Gly Phe Arg Ala Gly Ser Cys Gly Arg Ser Phe
 65 70 75 80
 Gly Tyr Arg Ser Gly Gly Val Cys Gly Pro Ser Pro Pro Cys Ile Thr
 85 90 95
 Thr Val Ser Val Asn Glu Ser Leu Leu Thr Pro Leu Asn Leu Glu Ile
 100 105 110
 Asp Pro Asn Ala Gln Cys Val Lys Gln Glu Glu Lys Glu Gln Ile Lys
 115 120 125
 Ser Leu Asn Ser Arg Phe Ala Ala Phe Ile Asp Lys Val Arg Phe Leu
 130 135 140
 Glu Gln Gln Asn Lys Leu Glu Thr Lys Trp Gln Phe Tyr Gln Asn
 145 150 155 160
 Gln Arg Cys Cys Glu Ser Asn Leu Glu Pro Leu Phe Ser Gly Tyr Ile
 165 170 175
 Glu Thr Leu Arg Arg Glu Ala Glu Cys Val Glu Ala Asp Ser Gly Arg
 180 185 190
 Leu Ala Ser Glu Leu Asn His Val Gln Glu Val Leu Glu Gly Tyr Lys
 195 200 205
 Lys Lys Tyr Glu Glu Glu Val Ala Leu Arg Ala Thr Ala Glu Asn Glu
 210 215 220
 Phe Val Val Leu Lys Lys Asp Val Asp Cys Ala Tyr Leu Arg Lys Ser
 225 230 235 240
 Asp Leu Glu Ala Asn Val Glu Ala Leu Val Glu Glu Ser Ser Phe Leu
 245 250 255
 Arg Arg Leu Tyr Glu Glu Glu Ile Arg Val Leu Gln Ala His Ile Ser
 260 265 270
 Asp Thr Ser Val Ile Val Lys Met Asp Asn Ser Arg Asp Leu Asn Met
 275 280 285
 Asp Cys Ile Ile Ala Glu Ile Lys Ala Gln Tyr Asp Asp Val Ala Ser
 290 295 300
 Arg Ser Arg Ala Glu Ala Glu Ser Trp Tyr Arg Ser Lys Cys Glu Glu
 305 310 315 320
 Met Lys Ala Thr Val Ile Arg His Gly Glu Thr Leu Arg Arg Thr Lys
 325 330 335
 Glu Glu Ile Asn Glu Leu Asn Arg Met Ile Gln Arg Leu Thr Ala Glu
 340 345 350

Siemens 0022 Seq Listing.txt

```

Ile Glu Asn Ala Lys Cys Gln Arg Ala Lys Leu Glu Ala Ala Val Ala
355 360 365
Glu Ala Glu Gln Gln Gly Glu Ala Ala Leu Ser Asp Ala Arg Cys Lys
370 375 380
Leu Ala Glu Leu Glu Gly Ala Leu Gln Lys Ala Lys Gln Asp Met Ala
385 390 395 400
Cys Leu Leu Lys Glu Tyr Gln Glu Val Met Asn Ser Lys Leu Gly Leu
405 410 415
Asp Ile Glu Ile Ala Thr Tyr Arg Arg Leu Leu Glu Gly Glu Glu His
420 425 430
Arg Leu Cys Glu Gly Val Gly Ser Val Asn Val Cys Val Ser Ser Ser
435 440 445
Arg Gly Gly Val Ser Cys Gly Gly Leu Ser Tyr Ser Thr Thr Pro Gly
450 455 460
Arg Gln Ile Thr Ser Gly Pro Ser Ala Ile Gly Gly Ser Ile Thr Val
465 470 475 480
Val Ala Pro Asp Ser Cys Ala Pro Cys Gln Pro Arg Ser Ser Ser Phe
485 490 495
Ser Cys Gly Ser Arg Ser Val Arg Phe Ala
500 505

```

<210> 450

<211> 600

<212> PRT

<213> Homo sapiens

<400> 450

```

Met Ser Cys Arg Ser Tyr Arg Val Ser Ser Gly His Arg Val Gly Asn
1 5 10 15
Phe Ser Ser Cys Ser Ala Met Thr Pro Gln Asn Leu Asn Arg Phe Arg
20 25 30
Ala Asn Ser Val Ser Cys Trp Ser Gly Pro Gly Phe Arg Gly Leu Gly
35 40 45
Ser Phe Gly Ser Arg Ser Val Ile Thr Phe Gly Ser Tyr Ser Pro Arg
50 55 60
Ile Ala Ala Val Gly Ser Arg Pro Ile His Cys Gly Val Arg Phe Gly
65 70 75 80
Ala Gly Cys Gly Met Gly Phe Gly Asp Gly Arg Gly Val Gly Leu Gly
85 90 95
Pro Arg Ala Asp Ser Cys Val Gly Leu Gly Phe Gly Ala Gly Ser Gly
100 105 110
Ile Gly Tyr Gly Phe Gly Gly Pro Gly Phe Gly Tyr Arg Val Gly Gly
115 120 125
Val Gly Val Pro Ala Ala Pro Ser Ile Thr Ala Val Thr Val Asn Lys
130 135 140
Ser Leu Leu Thr Pro Leu Asn Leu Glu Ile Asp Pro Asn Ala Gln Arg
145 150 155 160
Val Lys Lys Asp Glu Lys Glu Gln Ile Lys Thr Leu Asn Asn Lys Phe
165 170 175
Ala Ser Phe Ile Asp Lys Val Arg Phe Leu Glu Gln Gln Asn Lys Leu
180 185 190
Leu Glu Thr Lys Trp Ser Phe Leu Gln Glu Gln Lys Cys Ile Arg Ser
195 200 205
Asn Leu Glu Pro Leu Phe Glu Ser Tyr Ile Thr Asn Leu Arg Arg Gln
210 215 220
Leu Glu Val Leu Val Ser Asp Gln Ala Arg Leu Gln Ala Glu Arg Asn
225 230 235 240

```

Siemens 0022 Seq Listing.txt

```

His Leu Gln Asp Val Leu Glu Gly Phe Lys Lys Tyr Glu Glu
245 250 255
Val Val Cys Arg Ala Asn Ala Glu Asn Glu Phe Val Ala Leu Lys Lys
260 265 270
Asp Val Asp Ala Ala Phe Met Asn Lys Ser Asp Leu Glu Ala Asn Val
275 280 285
Asp Thr Leu Thr Gln Glu Ile Asp Phe Leu Lys Thr Leu Tyr Met Glu
290 295 300
Glu Ile Gln Leu Leu Gln Ser His Ile Ser Glu Thr Ser Val Ile Val
305 310 315 320
Lys Met Asp Asn Ser Arg Asp Leu Asn Leu Asp Gly Ile Ile Ala Glu
325 330 335
Val Lys Ala Gln Tyr Glu Glu Val Ala Arg Arg Ser Arg Ala Asp Ala
340 345 350
Glu Ala Trp Tyr Gln Thr Lys Tyr Glu Glu Met Gln Val Thr Ala Gly
355 360 365
Gln His Cys Asp Asn Leu Arg Asn Ile Arg Asn Glu Ile Asn Glu Leu
370 375 380
Thr Arg Leu Ile Gln Arg Leu Lys Ala Glu Ile Glu His Ala Lys Ala
385 390 395 400
Gln Arg Ala Lys Leu Glu Ala Ala Val Ala Glu Ala Glu Gln Gln Gly
405 410 415
Glu Ala Thr Leu Ser Asp Ala Lys Cys Lys Leu Ala Asp Leu Glu Cys
420 425 430
Ala Leu Gln Gln Ala Lys Gln Asp Met Ala Arg Gln Leu Cys Glu Tyr
435 440 445
Gln Glu Leu Met Asn Ala Lys Leu Gly Leu Asp Ile Glu Ile Ala Thr
450 455 460
Tyr Arg Arg Leu Leu Glu Gly Glu Glu Ser Arg Leu Cys Glu Gly Val
465 470 475 480
Gly Pro Val Asn Ile Ser Val Ser Ser Ser Arg Gly Gly Leu Val Cys
485 490 495
Gly Pro Glu Pro Leu Val Ala Gly Ser Thr Leu Ser Arg Gly Gly Val
500 505 510
Thr Phe Ser Gly Ser Ser Ser Val Cys Ala Thr Ser Gly Val Leu Ala
515 520 525
Ser Cys Gly Pro Ser Leu Gly Gly Ala Arg Val Ala Pro Ala Thr Gly
530 535 540
Asp Leu Leu Ser Thr Gly Thr Arg Ser Gly Ser Met Leu Ile Ser Glu
545 550 555 560
Ala Cys Val Pro Ser Val Pro Cys Pro Leu Pro Thr Gln Gly Gly Phe
565 570 575
Ser Ser Cys Ser Gly Gly Arg Ser Ser Val Arg Phe Val Ser Thr
580 585 590
Thr Thr Ser Cys Arg Thr Lys Tyr
595 600

```

<210> 451

<211> 513

<212> PRT

<213> Homo sapiens

<400> 451

```

Met Ser Tyr His Ser Phe Gln Pro Gly Ser Arg Cys Gly Ser Gln Ser
1 5 10 15
Phe Ser Ser Tyr Ser Ala Val Met Pro Arg Met Val Thr His Tyr Ala
20 25 30

```

Siemens 0022 Seq Listing.txt

Val	Ser	Lys	Gly	Pro	Cys	Arg	Pro	Gly	Gly	Gly	Arg	Gly	Leu	Arg	Ala
		35					40					45			
Leu	Gly	Cys	Leu	Gly	Ser	Arg	Ser	Leu	Cys	Asn	Val	Gly	Phe	Gly	Arg
	50					55					60				
Pro	Arg	Val	Ala	Ser	Arg	Cys	Gly	Gly	Thr	Leu	Pro	Gly	Phe	Gly	Tyr
65					70				75						80
Arg	Leu	Gly	Ala	Thr	Cys	Gly	Pro	Ser	Ala	Cys	Ile	Thr	Pro	Val	Thr
				85					90					95	
Ile	Asn	Glu	Ser	Leu	Leu	Val	Pro	Leu	Ala	Leu	Glu	Ile	Asp	Pro	Thr
			100					105					110		
Val	Gln	Arg	Val	Lys	Arg	Asp	Glu	Lys	Glu	Gln	Ile	Lys	Cys	Leu	Asn
		115					120					125			
Asn	Arg	Phe	Ala	Ser	Phe	Ile	Asn	Lys	Val	Arg	Phe	Leu	Glu	Gln	Lys
	130					135					140				
Asn	Lys	Leu	Leu	Glu	Thr	Lys	Trp	Asn	Phe	Met	Gln	Gln	Gln	Arg	Cys
145					150					155					160
Cys	Gln	Thr	Asn	Ile	Glu	Pro	Ile	Phe	Glu	Gly	Tyr	Ile	Ser	Ala	Leu
				165					170					175	
Arg	Arg	Gln	Leu	Asp	Cys	Val	Ser	Gly	Asp	Arg	Val	Arg	Leu	Glu	Ser
			180					185					190		
Glu	Leu	Cys	Ser	Leu	Gln	Ala	Ala	Leu	Glu	Gly	Tyr	Lys	Lys	Lys	Tyr
		195					200					205			
Glu	Glu	Glu	Leu	Ser	Leu	Arg	Pro	Cys	Val	Glu	Asn	Glu	Phe	Val	Ala
	210					215					220				
Leu	Lys	Lys	Asp	Val	Asp	Thr	Ala	Phe	Leu	Met	Lys	Ala	Asp	Leu	Glu
225					230					235					240
Thr	Asn	Ala	Glu	Ala	Leu	Val	Gln	Glu	Ile	Asp	Phe	Leu	Lys	Ser	Leu
				245					250					255	
Tyr	Glu	Glu	Glu	Ile	Cys	Leu	Leu	Gln	Ser	Gln	Ile	Ser	Glu	Thr	Ser
			260					265					270		
Val	Ile	Val	Lys	Met	Asp	Asn	Ser	Arg	Glu	Leu	Asp	Val	Asp	Gly	Ile
		275					280					285			
Ile	Ala	Glu	Ile	Lys	Ala	Gln	Tyr	Asp	Asp	Ile	Ala	Ser	Arg	Ser	Lys
	290					295					300				
Ala	Glu	Ala	Glu	Ala	Trp	Tyr	Gln	Cys	Arg	Tyr	Glu	Glu	Leu	Arg	Val
305					310					315					320
Thr	Ala	Gly	Asn	His	Cys	Asp	Asn	Leu	Arg	Asn	Arg	Lys	Asn	Glu	Ile
				325					330					335	
Leu	Glu	Met	Asn	Lys	Leu	Ile	Gln	Arg	Leu	Gln	Gln	Glu	Thr	Glu	Asn
			340					345					350		
Val	Lys	Ala	Gln	Arg	Cys	Lys	Leu	Glu	Gly	Ala	Ile	Ala	Glu	Ala	Glu
		355					360					365			
Gln	Gln	Gly	Glu	Ala	Ala	Leu	Asn	Asp	Ala	Lys	Cys	Lys	Leu	Ala	Gly
	370					375					380				
Leu	Glu	Glu	Ala	Leu	Gln	Lys	Ala	Lys	Gln	Asp	Met	Ala	Cys	Leu	Leu
385					390					395					400
Lys	Glu	Tyr	Gln	Glu	Val	Met	Asn	Ser	Lys	Leu	Gly	Leu	Asp	Ile	Glu
				405					410					415	
Ile	Ala	Thr	Tyr	Arg	Arg	Leu	Leu	Glu	Gly	Glu	Glu	His	Arg	Leu	Cys
			420					425					430		
Glu	Gly	Ile	Gly	Pro	Val	Asn	Ile	Ser	Val	Ser	Ser	Ser	Lys	Gly	Ala
		435					440						445		
Phe	Leu	Tyr	Glu	Pro	Cys	Gly	Val	Ser	Thr	Pro	Val	Leu	Ser	Thr	Gly
	450					455					460				
Val	Leu	Arg	Ser	Asn	Gly	Cys	Ser	Ile	Val	Gly	Thr	Gly	Glu	Leu	
465					470					475					480
Tyr	Val	Pro	Cys	Glu	Pro	Gln	Gly	Leu	Leu	Ser	Cys	Gly	Ser	Gly	Arg
				485					490					495	
Lys	Ser	Ser	Met	Thr	Leu	Gly	Ala	Gly	Gly	Ser	Ser	Pro	Ser	His	Lys
			500					505					510		

His

Siemens 0022 Seq Listing.txt

<210> 452

<211> 85

<212> PRT

<213> Homo sapiens

<400> 452

```

Met Asp Ala Val Tyr Met Asn Lys Val Gly Leu Glu Ala Lys Val Asp
1      5      10      15
Ala Leu Met Glu Glu Thr Asn Phe Leu Ser Thr Phe Tyr Lys Ala Val
20      25      30
Arg Val Pro Gly Ala Pro Ser Asn Arg Gly Ala Gly Gly Trp Val Leu
35      40      45
Glu Pro Gln Leu Gly Thr Glu Pro Val Gly Ser Phe Pro Gly Leu Leu
50      55      60
Ser Ala Pro Tyr Pro Thr Cys Val Leu Gln Gly Arg Cys His Phe Pro
65      70      75      80
Tyr His Arg Arg Lys
85

```

<210> 453

<211> 564

<212> PRT

<213> Homo sapiens

<400> 453

```

Met Ala Ser Thr Ser Thr Thr Ile Arg Ser His Ser Ser Ser Arg Arg
1      5      10      15
Gly Phe Ser Ala Ser Ser Ala Arg Leu Pro Gly Val Ser Arg Ser Gly
20      25      30
Phe Ser Ser Ile Ser Val Ser Arg Ser Arg Gly Ser Gly Gly Leu Gly
35      40      45
Gly Ala Cys Gly Gly Ala Gly Phe Gly Ser Arg Ser Leu Tyr Gly Leu
50      55      60
Gly Gly Ser Lys Arg Ile Ser Ile Gly Gly Gly Ser Cys Ala Ile Ser
65      70      75      80
Gly Gly Tyr Gly Ser Arg Ala Gly Gly Ser Tyr Gly Phe Gly Gly Ala
85      90      95
Gly Ser Gly Phe Gly Phe Gly Gly Gly Ala Gly Ile Gly Phe Gly Leu
100      105      110
Gly Gly Gly Ala Gly Leu Ala Gly Gly Phe Gly Gly Pro Gly Phe Pro
115      120      125
Val Cys Pro Pro Gly Gly Ile Gln Glu Val Thr Val Asn Gln Ser Leu
130      135      140
Leu Thr Pro Leu Asn Leu Gln Ile Asp Pro Ala Ile Gln Arg Val Arg
145      150      155      160
Ala Glu Glu Arg Glu Gln Ile Lys Thr Leu Asn Asn Lys Phe Ala Ser
165      170      175
Phe Ile Asp Lys Val Arg Phe Leu Glu Gln Gln Asn Lys Val Leu Asp
180      185      190
Thr Lys Trp Thr Leu Leu Gln Glu Gln Gly Thr Lys Thr Val Arg Gln
195      200      205

```

Siemens 0022 Seq Listing.txt

```

Asn 210 Glu Pro Leu Phe Glu 215 Gln Tyr Ile Asn 220 Asn Leu Arg Arg Gln
Leu 225 Asp Ser Ile Val Gly 230 Glu Arg Gly Arg Leu 235 Asp Ser Glu Leu Arg
Asn Met Gln Asp Leu 245 Val Glu Asp Leu Lys 250 Asn Lys Tyr Glu 255 Asp Glu
Ile Asn Lys Arg 260 Thr Ala Ala Glu Asn 265 Glu Phe Val Thr Leu 270 Lys Lys
Asp Val 275 Asp Ala Ala Tyr Met Asn 280 Lys Val Glu Leu Gln 285 Ala Lys Ala
Asp Thr 290 Leu Thr Asp Glu Ile 295 Asn Phe Leu Arg Ala 300 Leu Tyr Asp Ala
Glu 305 Leu Ser Gln Met Gln 310 Thr His Ile Ser Asp 315 Thr Ser Val Val Leu
Ser Met Asp Asn 325 Asn Arg Asn Leu Asp Leu 330 Asp Ser Ile Ile Ala Glu
Val Lys Ala Gln 340 Tyr Glu Glu Ile Ala 345 Gln Arg Ser Arg Ala Glu Ala
Glu Ser Trp 355 Tyr Gln Thr Lys Tyr 360 Glu Glu Leu Gln Val 365 Thr Ala Gly
Arg His 370 Gly Asp Asp Leu Arg 375 Asn Thr Lys Gln Glu 380 Ile Ala Glu Ile
Asn 385 Arg Met Ile Gln Arg 390 Leu Arg Ser Glu Ile 395 Asp His Val Lys Lys
Gln Cys Ala Asn Leu 405 Gln Ala Ala Ile Ala 410 Asp Ala Glu Gln Arg Gly
Glu Met Ala Leu 420 Lys Asp Ala Lys Asn 425 Lys Leu Glu Gly Leu Glu Asp
Ala Leu Gln 435 Lys Ala Lys Gln Asp 440 Leu Ala Arg Leu Leu 445 Lys Glu Tyr
Gln Glu 450 Leu Met Asn Val Lys 455 Leu Ala Leu Asp Val 460 Glu Ile Ala Thr
Tyr Arg Lys Leu Leu Glu 470 Gly Glu Glu Cys Arg 475 Leu Asn Gly Glu Gly
Val Gly Gln Val 485 Asn Ile Ser Val Val Gln 490 Ser Thr Val Ser 495 Ser Gly
Tyr Gly Gly Ala 500 Ser Gly Val Gly Ser 505 Gly Leu Gly Leu Gly 510 Gly Gly
Ser Ser Tyr 515 Ser Tyr Gly Ser Gly 520 Leu Gly Val Gly 525 Gly Gly Phe Ser
Ser Ser 530 Ser Gly Arg Ala Thr 535 Gly Gly Gly Leu Ser 540 Ser Val Gly Gly
Gly 545 Ser Ser Thr Ile Lys 550 Tyr Thr Thr Thr Ser 555 Ser Ser Ser Arg Lys
Ser Tyr Lys His 560

```

<210> 454

<211> 564

<212> PRT

<213> Homo sapiens

<400> 454

```

Met Ala Ser Thr 5 Ser Thr Thr Ile Arg 10 Ser His Ser Ser Ser Arg Arg
1 Gly Phe Ser Ala 20 Asn Ser Ala Arg Leu 25 Pro Gly Val Ser 30 Arg Ser Gly

```

Siemens 0022 Seq Listing.txt

Phe	Ser	Ser	Ile	Ser	Val	Ser	Arg	Ser	Arg	Gly	Ser	Gly	Gly	Leu	Gly
		35					40				45				
Gly	Ala	Cys	Gly	Gly	Ala	Gly	Phe	Gly	Ser	Arg	Ser	Leu	Tyr	Gly	Leu
	50					55					60				
Gly	Gly	Ser	Lys	Arg	Ile	Ser	Ile	Gly	Gly	Gly	Ser	Cys	Ala	Ile	Ser
65					70					75					80
Gly	Gly	Tyr	Gly	Ser	Arg	Ala	Arg	Gly	Ser	Tyr	Gly	Phe	Gly	Gly	Ala
				85					90					95	
Gly	Ser	Gly	Phe	Gly	Phe	Gly	Gly	Gly	Ala	Gly	Ile	Gly	Phe	Asp	Leu
			100					105					110		
Gly	Gly	Gly	Ala	Gly	Leu	Ala	Gly	Gly	Phe	Gly	Gly	Pro	Gly	Phe	Pro
		115					120					125			
Val	Cys	Pro	Pro	Gly	Gly	Ile	Gln	Glu	Val	Thr	Val	Asn	Gln	Ser	Leu
	130					135					140				
Leu	Thr	Pro	Leu	Asn	Leu	Gln	Ile	Asp	Pro	Ala	Ile	Gln	Arg	Val	Arg
145					150					155					160
Ala	Glu	Glu	Arg	Glu	Gln	Ile	Lys	Thr	Leu	Asn	Asn	Lys	Phe	Ala	Ser
				165					170					175	
Phe	Ile	Asp	Lys	Val	Arg	Phe	Leu	Glu	Gln	Gln	Asn	Lys	Val	Leu	Asp
			180					185					190		
Thr	Lys	Trp	Thr	Leu	Leu	Gln	Glu	Gln	Gly	Thr	Lys	Thr	Val	Arg	Gln
		195					200					205			
Asn	Leu	Glu	Pro	Leu	Phe	Glu	Gln	Tyr	Ile	Asn	Asn	Leu	Arg	Arg	Gln
	210					215					220				
Leu	Asp	Asn	Ile	Val	Gly	Glu	Arg	Gly	Arg	Leu	Asp	Ser	Glu	Leu	Arg
225					230					235					240
Asn	Met	Gln	Asp	Leu	Val	Glu	Asp	Leu	Lys	Asn	Lys	Tyr	Glu	Asp	Glu
				245					250					255	
Ile	Asn	Lys	Arg	Thr	Ala	Ala	Glu	Asn	Glu	Phe	Val	Thr	Leu	Lys	Lys
			260					265					270		
Asp	Val	Asp	Ala	Ala	Tyr	Met	Asn	Lys	Val	Glu	Leu	Gln	Ala	Lys	Ala
		275					280					285			
Asp	Thr	Leu	Thr	Asp	Glu	Ile	Asn	Phe	Leu	Arg	Ala	Leu	Tyr	Asp	Ala
	290					295					300				
Glu	Leu	Ser	Gln	Met	Gln	Thr	His	Ile	Ser	Asp	Thr	Ser	Val	Val	Leu
305					310					315					320
Ser	Met	Asp	Asn	Asn	Arg	Asn	Leu	Asp	Leu	Asp	Ser	Ile	Ile	Ala	Glu
			325						330					335	
Val	Lys	Ala	Gln	Tyr	Glu	Glu	Ile	Ala	Gln	Arg	Ser	Arg	Ala	Glu	Ala
			340					345					350		
Glu	Ser	Trp	Tyr	Gln	Thr	Lys	Tyr	Glu	Glu	Leu	Gln	Val	Thr	Ala	Gly
		355					360					365			
Arg	His	Gly	Asp	Asp	Leu	Arg	Asn	Thr	Lys	Gln	Glu	Ile	Ala	Glu	Ile
	370					375					380				
Asn	Arg	Met	Ile	Gln	Arg	Leu	Arg	Ser	Glu	Ile	Asp	His	Val	Lys	Lys
385					390					395					400
Gln	Cys	Ala	Ser	Leu	Gln	Ala	Ala	Ile	Ala	Asp	Ala	Glu	Gln	Arg	Gly
			405						410					415	
Glu	Met	Ala	Leu	Lys	Asp	Ala	Lys	Asn	Lys	Leu	Glu	Gly	Leu	Glu	Asp
			420					425					430		
Ala	Leu	Gln	Lys	Ala	Lys	Gln	Asp	Leu	Ala	Arg	Leu	Leu	Lys	Glu	Tyr
		435					440					445			
Gln	Glu	Leu	Met	Asn	Val	Lys	Leu	Ala	Leu	Asp	Val	Glu	Ile	Ala	Thr
	450					455					460				
Tyr	Arg	Lys	Leu	Leu	Glu	Gly	Glu	Glu	Cys	Arg	Leu	Asn	Gly	Glu	Gly
465					470					475					480
Ile	Gly	Gln	Val	Asn	Val	Ser	Val	Val	Gln	Ser	Thr	Ile	Ser	Ser	Gly
				485					490					495	
Tyr	Gly	Gly	Ala	Ser	Gly	Val	Gly	Ser	Gly	Leu	Gly	Leu	Gly	Gly	Gly
			500					505					510		
Ser	Ser	Tyr	Ser	Tyr	Gly	Ser	Gly	Leu	Gly	Ile	Gly	Gly	Gly	Phe	Ser
		515					520					525			
ser	ser	ser	Gly	Arg	Ala	Ile	Gly	Gly	Gly	Leu	Ser	Ser	Val	Gly	Gly

Siemens 0022 Seq Listing.txt

530 535 540
 Gly Ser Ser Thr Ile Lys Tyr Thr Thr Thr Ser Ser Ser Ser Arg Lys
 545 550 555 560
 Ser Tyr Lys His

<210> 455

<211> 564

<212> PRT

<213> Homo sapiens

<400> 455

Met Ala Ser Thr Ser Thr Thr Ile Arg Ser His Ser Ser Ser Arg Arg
 1 5 10 15
 Gly Phe Ser Ala Asn Ser Ala Arg Leu Pro Gly Val Ser Arg Ser Gly
 20 25 30
 Phe Ser Ser Ile Ser Val Ser Arg Ser Arg Gly Ser Gly Gly Leu Gly
 35 40 45
 Gly Ala Cys Gly Gly Ala Gly Phe Gly Ser Arg Ser Leu Tyr Gly Leu
 50 55 60
 Gly Gly Ser Lys Arg Ile Ser Ile Gly Gly Gly Ser Cys Ala Ile Ser
 65 70 75 80
 Gly Gly Tyr Gly Ser Arg Ala Arg Ala Ser Tyr Gly Phe Gly Gly Ala
 85 90 95
 Gly Ser Gly Phe Gly Phe Gly Gly Ala Gly Ile Gly Phe Asp Leu
 100 105 110
 Gly Gly Gly Ala Gly Leu Ala Gly Gly Phe Gly Gly Pro Gly Phe Pro
 115 120 125
 Val Cys Pro Pro Gly Gly Ile Gln Glu Val Thr Val Asn Gln Ser Leu
 130 135 140
 Leu Thr Pro Leu Asn Leu Gln Ile Asp Pro Ala Ile Gln Arg Val Arg
 145 150 155 160
 Ala Glu Glu Arg Glu Gln Ile Lys Thr Leu Asn Asn Lys Phe Ala Ser
 165 170 175
 Phe Ile Asp Lys Val Arg Phe Leu Glu Gln Gln Asn Lys Val Leu Glu
 180 185 190
 Thr Lys Trp Thr Leu Leu Gln Glu Gln Gly Thr Lys Thr Val Arg Gln
 195 200 205
 Asn Leu Glu Pro Leu Phe Glu Gln Tyr Ile Asn Asn Leu Arg Arg Gln
 210 215 220
 Leu Asp Ser Ile Val Gly Glu Arg Gly Arg Leu Asp Ser Glu Leu Arg
 225 230 235 240
 Gly Met Gln Asp Leu Val Glu Asp Phe Lys Asn Lys Tyr Glu Asp Glu
 245 250 255
 Ile Asn Lys Arg Thr Ala Ala Glu Asn Glu Phe Val Thr Leu Lys Lys
 260 265 270
 Asp Val Asp Ala Ala Tyr Met Asn Lys Val Glu Leu Gln Ala Lys Ala
 275 280 285
 Asp Thr Leu Thr Asp Glu Ile Asn Phe Leu Arg Ala Leu Tyr Asp Ala
 290 295 300
 Glu Leu Ser Gln Met Gln Thr His Ile Ser Asp Thr Ser Val Val Leu
 305 310 315 320
 Ser Met Asp Asn Asn Arg Asn Leu Asp Leu Asp Ser Ile Ile Ala Glu
 325 330 335
 Val Lys Ala Gln Tyr Glu Glu Ile Ala Gln Arg Ser Arg Ala Glu Ala
 340 345 350
 Glu Ser Trp Tyr Gln Thr Lys Tyr Glu Glu Leu Gln Val Thr Ala Gly

Siemens 0022 Seq Listing.txt

```

      355
Arg His Gly Asp Asp Leu Arg 360 Asn Thr Lys Gln Glu 365 Ile Ala Glu Ile
370
Asn Arg Met Ile Gln Arg 375 Leu Arg Ser Glu Ile Asp His Val Lys Lys
385
Gln Cys Ala Asn Leu 390 Ala Ala Ile Ala Asp Ala Glu Gln Arg Gly
405
Glu Met Ala Leu Lys Asp Ala Lys Asn 410 Lys Leu Glu Gly Leu Glu Asp
420
Ala Leu Gln Lys Ala Lys Gln Asp Leu Ala Arg Leu Leu Lys Glu Tyr
435
Gln Glu Leu Met Asn Val Lys 440 Leu Ala Leu Asp Val Glu Ile Ala Thr
450
Tyr Arg Lys Leu Leu Glu 455 Gly Glu Glu Cys Arg 460 Leu Asn Gly Glu Gly
465
Val Gly Gln Val Asn Ile Ser Val Val Gln Ser Thr Val Ser Ser Gly
485
Tyr Gly Gly Ala Ser Gly Val Gly Ser 505 Gly Leu Gly Leu Gly Gly Gly
500
Ser Ser Tyr Ser Tyr Gly Ser Gly 520 Leu Gly Val Gly Gly Gly Phe Ser
515
Ser Ser Ser Gly Arg Ala Ile Gly Gly Gly Leu Ser Ser Val Gly Gly
530
Gly Ser Ser Thr Ile Lys Tyr Thr Thr Thr Ser 540 Ser Ser Ser Arg Lys
545
Ser Tyr Lys His
550

```

<210> 456

<211> 564

<212> PRT

<213> Homo sapiens

<400> 456

```

Met Ala Ser Thr Ser Thr Thr Ile Arg Ser His Ser Ser Ser Arg Arg
1
Gly Phe Ser Ala Asn Ser Ala Arg Leu Pro Gly Val Ser Arg Ser Gly
20
Phe Ser Ser Val Ser Val Ser Arg Ser Arg Gly Ser Gly Gly Leu Gly
35
Gly Ala Cys Gly Gly Ala Gly Phe Gly Ser Arg Ser Leu Tyr Gly Leu
50
Gly Gly Ser Lys Arg Ile Ser Ile Gly Gly Gly Ser Cys Ala Ile Ser
65
Gly Gly Tyr Gly Ser Arg Ala Gly Gly Ser Tyr Gly Phe Gly Gly Ala
85
Gly Ser Gly Phe Gly Phe Gly Gly Gly Ala Gly Ile Gly Phe Gly Leu
100
Gly Gly Gly Ala Gly Leu Ala Gly Phe Gly Gly Pro Gly Phe Pro
115
Val Cys Pro Pro Gly Gly Ile Gln Glu Val Thr Val Asn Gln Ser Leu
130
Leu Thr Pro Leu Asn Leu Gln Ile Asp Pro Thr Ile Gln Arg Val Arg
145
Ala Glu Glu Arg Glu Gln Ile Lys Thr Leu Asn Asn Lys Phe Ala Ser
165
Phe Ile Asp Lys Val Arg Phe Leu Glu Gln Gln Asn Lys Val Leu Glu
170

```

Siemens 0022 Seq Listing.txt

```

      180      185      190
Thr Lys Trp Thr Leu Leu Gln Glu Gln Gly Thr Lys Thr Val Arg Gln
195
Asn Leu Glu Pro Leu Phe Glu Gln Tyr Ile Asn Asn Leu Arg Arg Gln
210
Leu Asp Ser Ile Val Gly Glu Arg Gly Arg Leu Asp Ser Glu Leu Arg
225
Gly Met Gln Asp Leu Val Glu Asp Phe Lys Asn Lys Tyr Glu Asp Glu
230
Ile Asn Lys Arg Thr Ala Ala Glu Asn Glu Phe Val Thr Leu Lys Lys
245
Asp Val Asp Ala Ala Tyr Met Asn Lys Val Glu Leu Gln Ala Lys Ala
260
Asp Thr Leu Thr Asp Glu Ile Asn Phe Leu Arg Ala Leu Tyr Asp Ala
275
Glu Leu Ser Gln Met Gln Thr His Ile Ser Asp Thr Ser Val Val Leu
290
Ser Met Asp Asn Asn Arg Asn Leu Asp Leu Asp Ser Ile Ile Ala Glu
305
Val Lys Ala Gln Tyr Glu Glu Ile Ala Gln Arg Ser Arg Ala Glu Ala
310
Glu Ser Trp Tyr Gln Thr Lys Tyr Glu Glu Leu Gln Val Thr Ala Gly
325
Arg His Gly Asp Asp Leu Arg Asn Thr Lys Gln Glu Ile Ala Glu Ile
335
Asn Arg Met Ile Gln Arg Leu Arg Ser Glu Ile Asp His Val Lys Lys
340
Gln Cys Ala Asn Leu Gln Ala Ala Ile Ala Asp Ala Glu Gln Arg Gly
355
Glu Met Ala Leu Lys Asp Ala Lys Asn Lys Leu Glu Gly Leu Glu Asp
360
Ala Leu Gln Lys Ala Lys Gln Asp Leu Ala Arg Leu Leu Lys Glu Tyr
375
Gln Glu Leu Met Asn Val Lys Leu Ala Leu Asp Val Glu Ile Ala Thr
385
Tyr Arg Lys Leu Leu Glu Gly Glu Glu Cys Arg Leu Asn Gly Glu Gly
390
Val Gly Gln Val Asn Ile Ser Val Val Gln Ser Thr Val Ser Ser Gly
405
Tyr Gly Gly Ala Ser Gly Val Gly Ser Gly Leu Gly Leu Gly Gly Gly
410
Ser Ser Tyr Ser Tyr Gly Ser Gly Leu Gly Val Gly Gly Phe Ser
425
Ser Ser Gly Arg Ala Ile Gly Gly Gly Leu Ser Ser Val Gly Gly
430
Gly Ser Ser Thr Ile Lys Tyr Thr Thr Thr Ser Ser Ser Ser Arg Lys
440
Ser Tyr Lys His
450

```

<210> 457

<211> 590

<212> PRT

<213> Homo sapiens

<400> 457

Met Ser Arg Gln Ser Ser Val Ser Phe Arg Ser Gly Gly Ser Arg Ser
Page 283

Siemens 0022 Seq Listing.txt

```

1      5      10      15
Phe Ser Thr Ala Ser Ala Ile Thr Pro Ser Val Ser Arg Thr Ser Phe
20 25 30
Thr Ser Val Ser Arg Ser Gly Gly Gly Gly Gly Gly Phe Gly Arg
35 40 45
Val Ser Leu Ala Gly Ala Cys Gly Val Gly Gly Tyr Gly Ser Arg Ser
50 55 60
Leu Tyr Asn Leu Gly Gly Ser Lys Arg Ile Ser Ile Ser Thr Arg Gly
65 70 75 80
Gly Ser Phe Arg Asn Arg Phe Gly Ala Gly Ala Gly Gly Tyr Gly
85 90 95
Phe Gly Gly Gly Ala Gly Ser Gly Phe Gly Phe Gly Gly Ala Gly
100 105 110
Gly Gly Phe Gly Leu Gly Gly Gly Ala Gly Phe Gly Gly Phe Gly
115 120 125
Gly Pro Gly Phe Pro Val Cys Pro Pro Gly Gly Ile Gln Glu Val Thr
130 135 140
Val Asn Gln Ser Leu Leu Thr Pro Leu Asn Leu Gln Ile Asp Pro Ser
145 150 155 160
Ile Gln Arg Val Arg Thr Glu Glu Arg Glu Gln Ile Lys Thr Leu Asn
165 170 175
Asn Lys Phe Ala Ser Phe Ile Asp Lys Val Arg Phe Leu Glu Gln Gln
180 185 190
Asn Lys Val Leu Asp Thr Lys Trp Thr Leu Leu Gln Glu Gln Gly Thr
195 200 205
Lys Thr Val Arg Gln Asn Leu Glu Pro Leu Phe Glu Gln Tyr Ile Asn
210 215 220
Asn Leu Arg Arg Gln Leu Asp Ser Ile Val Gly Glu Arg Gly Arg Leu
225 230 235 240
Asp Ser Glu Leu Arg Asn Met Gln Asp Leu Val Glu Asp Phe Lys Asn
245 250 255
Lys Tyr Glu Asp Glu Ile Asn Lys Arg Thr Thr Ala Glu Asn Glu Phe
260 265 270
Val Met Leu Lys Lys Asp Val Asp Ala Ala Tyr Met Asn Lys Val Glu
275 280 285
Leu Glu Ala Lys Val Asp Ala Leu Met Asp Glu Ile Asn Phe Met Lys
290 295 300
Met Phe Phe Asp Ala Glu Leu Ser Gln Met Gln Thr His Val Ser Asp
305 310 315 320
Thr Ser Val Val Leu Ser Met Asp Asn Asn Arg Asn Leu Asp Leu Asp
325 330 335
Ser Ile Ile Ala Glu Val Lys Ala Gln Tyr Glu Glu Ile Ala Asn Arg
340 345 350
Ser Arg Thr Glu Ala Glu Ser Trp Tyr Gln Thr Lys Tyr Glu Glu Leu
355 360 365
Gln Gln Thr Ala Gly Arg His Gly Asp Asp Leu Arg Asn Thr Lys His
370 375 380
Glu Ile Thr Glu Met Asn Arg Met Ile Gln Arg Leu Arg Ala Glu Ile
385 390 395 400
Asp Asn Val Lys Lys Gln Cys Ala Asn Leu Gln Asn Ala Ile Ala Asp
405 410 415
Ala Glu Gln Arg Gly Glu Leu Ala Leu Lys Asp Ala Arg Asn Lys Leu
420 425 430
Ala Glu Leu Glu Glu Ala Leu Gln Lys Ala Lys Gln Asp Met Ala Arg
435 440 445
Leu Leu Arg Glu Tyr Gln Glu Leu Met Asn Thr Lys Leu Ala Leu Asp
450 455 460
Val Glu Ile Ala Thr Tyr Arg Lys Leu Leu Glu Gly Glu Glu Cys Arg
465 470 475 480
Leu Ser Gly Glu Gly Val Gly Pro Val Asn Ile Ser Val Val Thr Ser
485 490 495
ser Val ser ser Gly Tyr Gly ser Gly Ser Gly Tyr Gly Gly Gly Leu
500 505 510

```

Siemens 0022 Seq Listing.txt

Gly Gly Gly Leu Gly Gly Gly Leu Gly Gly Gly Leu Ala Gly Gly Ser
 515 520 525
 Ser Gly Ser Tyr Tyr Ser Ser Ser Ser Gly Gly Val Gly Leu Gly Gly
 530 535 540
 Gly Leu Ser Val Gly Gly Ser Gly Phe Ser Ala Ser Ser Gly Arg Gly
 545 550 555 560
 Leu Gly Val Gly Phe Gly Ser Gly Gly Gly Ser Ser Ser Val Lys
 565 570 575
 Phe Val Ser Thr Thr Ser Ser Ser Arg Lys Ser Phe Lys Ser
 580 585 590

<210> 458

<211> 523

<212> PRT

<213> Homo sapiens

<400> 458

Met Ser Arg Gln Phe Thr Cys Lys Ser Gly Ala Ala Ala Lys Gly Gly
 1 5 10 15
 Phe Ser Gly Cys Ser Ala Val Leu Ser Gly Gly Ser Ser Ser Phe
 20 25 30
 Arg Ala Gly Ser Lys Gly Leu Ser Gly Gly Phe Gly Ser Arg Ser Leu
 35 40 45
 Tyr Ser Leu Gly Gly Val Arg Ser Leu Asn Val Ala Ser Gly Ser Gly
 50 55 60
 Lys Ser Gly Gly Tyr Gly Phe Gly Arg Gly Arg Ala Ser Gly Phe Ala
 65 70 75 80
 Gly Ser Met Phe Gly Ser Val Ala Leu Gly Pro Val Cys Pro Thr Val
 85 90 95
 Cys Pro Pro Gly Gly Ile His Gln Val Thr Val Asn Glu Ser Leu Leu
 100 105 110
 Ala Pro Leu Asn Val Glu Leu Asp Pro Glu Ile Gln Lys Val Arg Ala
 115 120 125
 Gln Glu Arg Glu Gln Ile Lys Ala Leu Asn Asn Lys Phe Ala Ser Phe
 130 135 140
 Ile Asp Lys Val Arg Phe Leu Glu Gln Gln Asn Gln Val Leu Glu Thr
 145 150 155 160
 Lys Trp Glu Leu Leu Gln Gln Leu Asp Leu Asn Asn Cys Lys Asn Asn
 165 170 175
 Leu Glu Pro Ile Leu Glu Gly Tyr Ile Ser Asn Leu Arg Lys Gln Leu
 180 185 190
 Glu Thr Leu Ser Gly Asp Arg Val Arg Leu Asp Ser Glu Leu Arg Asn
 195 200 205
 Val Arg Asp Val Val Glu Asp Tyr Lys Lys Arg Tyr Glu Glu Glu Ile
 210 215 220
 Asn Lys Arg Thr Ala Ala Glu Asn Glu Phe Val Leu Leu Lys Lys Asp
 225 230 235 240
 Val Asp Ala Ala Tyr Ala Asn Lys Val Glu Leu Gln Ala Lys Val Glu
 245 250 255
 Ser Met Asp Gln Glu Ile Lys Phe Phe Arg Cys Leu Phe Glu Ala Glu
 260 265 270
 Ile Thr Gln Ile Gln Ser His Ile Ser Asp Met Ser Val Ile Leu Ser
 275 280 285
 Met Asp Asn Asn Arg Asn Leu Asp Leu Asp Ser Ile Ile Asp Glu Val
 290 295 300
 Arg Thr Gln Tyr Glu Glu Ile Ala Leu Lys Ser Lys Ala Glu Ala Glu
 305 310 315 320

Siemens 0022 Seq Listing.txt

```

Ala Leu Tyr Gln Thr Lys Phe Gln Glu Leu Gln Leu Ala Ala Gly Arg
325 330 335
His Gly Asp Asp Leu Lys Asn Thr Lys Asn Glu Ile Ser Glu Leu Thr
340 345 350
Arg Leu Ile Gln Arg Ile Arg Ser Glu Ile Glu Asn Val Lys Lys Gln
355 360 365
Ala Ser Asn Leu Glu Thr Ala Ile Ala Asp Ala Glu Gln Arg Gly Asp
370 375 380
Asn Ala Leu Lys Asp Ala Arg Ala Lys Leu Asp Glu Leu Glu Gly Ala
385 390 395 400
Leu His Gln Ala Lys Glu Glu Leu Ala Arg Met Leu Arg Glu Tyr Gln
405 410 415
Glu Leu Met Ser Leu Lys Leu Ala Leu Asp Met Glu Ile Ala Thr Tyr
420 425 430
Arg Lys Leu Leu Glu Ser Glu Glu Cys Arg Met Ser Gly Glu Phe Pro
435 440 445
Ser Pro Val Ser Ile Ser Ile Ile Ser Ser Thr Ser Gly Gly Ser Val
450 455 460
Tyr Gly Phe Arg Pro Ser Met Val Ser Gly Gly Tyr Val Ala Asn Ser
465 470 475 480
Ser Asn Cys Ile Ser Gly Val Cys Ser Val Arg Gly Gly Glu Gly Arg
485 490 495
Ser Arg Gly Ser Ala Asn Asp Tyr Lys Asp Thr Leu Gly Lys Gly Ser
500 505 510
Ser Leu Ser Ala Pro Ser Lys Lys Thr Ser Arg
515 520

```

<210> 459

<211> 529

<212> PRT

<213> Homo sapiens

<400> 459

```

Met Ser Arg Gln Leu Asn Ile Lys Ser Ser Gly Asp Lys Gly Asn Phe
1 5 10 15
Ser Val His Ser Ala Val Val Pro Arg Lys Ala Val Gly Ser Leu Ala
20 25 30
Ser Tyr Cys Ala Ala Gly Arg Gly Ala Gly Ala Gly Phe Gly Ser Arg
35 40 45
Ser Leu Tyr Ser Leu Gly Gly Asn Arg Arg Ile Ser Phe Asn Val Ala
50 55 60
Gly Gly Gly Val Arg Ala Gly Gly Tyr Gly Phe Arg Pro Gly Ser Gly
65 70 75 80
Tyr Gly Gly Gly Arg Ala Ser Gly Phe Ala Gly Ser Met Phe Gly Ser
85 90 95
Val Ala Leu Gly Pro Ala Cys Leu Ser Val Cys Pro Pro Gly Gly Ile
100 105 110
His Gln Val Thr Val Asn Lys Ser Leu Leu Ala Pro Leu Asn Val Glu
115 120 125
Leu Asp Pro Glu Ile Gln Lys Val Arg Ala Gln Glu Arg Glu Gln Ile
130 135 140
Lys Val Leu Asn Asp Lys Phe Ala Ser Phe Ile Asp Lys Val Arg Phe
145 150 155 160
Leu Glu Gln Gln Asn Gln Val Leu Glu Thr Lys Trp Glu Leu Leu Gln
165 170 175
Gln Leu Asp Leu Asn Asn Cys Lys Lys Asn Leu Glu Pro Ile Leu Glu
180 185 190

```

Siemens 0022 Seq Listing.txt

Gly Tyr Ile Ser Asn Leu Arg Lys Gln Leu Glu Thr Leu Ser Gly Asp
 195 200 205
 Arg Val Arg Leu Asp Ser Glu Leu Arg Ser Met Arg Asp Leu Val Glu
 210 215 220
 Asp Tyr Lys Lys Arg Tyr Glu Val Glu Ile Asn Arg Arg Thr Thr Ala
 225 230 235 240
 Glu Asn Glu Phe Val Val Leu Lys Lys Asp Ala Asp Ala Tyr Ala
 245 250 255
 Val Lys Val Glu Leu Gln Ala Lys Val Asp Ser Leu Asp Lys Asp Ile
 260 265 270
 Lys Phe Leu Lys Cys Leu Tyr Asp Ala Glu Ile Ala Gln Ile Gln Thr
 275 280 285
 His Ala Ser Glu Thr Ser Val Ile Leu Ser Met Asp Asn Asn Arg Asp
 290 295 300
 Leu Asp Leu Asp Ser Ile Ile Ala Glu Val Arg Met His Tyr Glu Glu
 305 310 315 320
 Ile Ala Leu Lys Ser Lys Ala Glu Ala Glu Ala Leu Tyr Gln Thr Lys
 325 330 335
 Ile Gln Glu Leu Gln Leu Ala Ala Ser Arg His Gly Asp Asp Leu Lys
 340 345 350
 His Thr Arg Ser Glu Met Val Glu Leu Asn Arg Leu Ile Gln Arg Ile
 355 360 365
 Arg Cys Glu Ile Gly Asn Val Lys Lys Gln Arg Ala Ser Leu Glu Thr
 370 375 380
 Ala Ile Ala Asp Ala Glu Gln Arg Gly Asp Asn Ala Leu Lys Asp Ala
 385 390 395 400
 Gln Ala Lys Leu Asp Glu Leu Glu Gly Ala Leu His Gln Ala Lys Glu
 405 410 415
 Glu Leu Ala Arg Met Leu Arg Glu Tyr Gln Glu Leu Met Ser Leu Lys
 420 425 430
 Leu Ala Leu Asp Met Glu Ile Ala Thr Tyr Arg Lys Leu Glu Gly
 435 440 445
 Glu Glu Cys Arg Met Ser Gly Glu Asn Pro Ser Ser Val Ser Ile Ser
 450 455 460
 Val Ile Ser Ser Ser Ser Tyr Ser Tyr His His Pro Ser Ser Ala Gly
 465 470 475 480
 Val Asp Leu Gly Ala Ser Ala Val Ala Gly Ser Ser Gly Ser Thr Gln
 485 490 495
 Ser Gly Gln Thr Lys Thr Thr Glu Ala Arg Gly Gly Asp Leu Lys Asp
 500 505 510
 Thr Gln Gly Lys Ser Thr Pro Ala Ser Ile Pro Ala Arg Lys Ala Thr
 515 520 525
 Arg

<210> 460

<211> 511

<212> PRT

<213> Homo sapiens

<400> 460

Met Ser Arg Gln Leu Thr His Phe Pro Arg Gly Glu Arg Leu Gly Phe
 1 5 10 15
 Ser Gly Cys Ser Ala Val Leu Ser Gly Gly Ile Gly Ser Ser Ser Ala
 20 25 30
 Ser Phe Arg Ala Arg Val Lys Gly Ser Ala Ser Phe Gly Ser Lys Ser
 35 40 45

Siemens 0022 Seq Listing.txt

```

Leu Ser Cys Leu Gly Gly Ser Arg Ser Leu Ala Leu Ser Ala Ala Ala
 50      55      60
Arg Arg Gly Gly Gly Arg Leu Gly Gly Phe Val Gly Thr Ala Phe Gly
 65      70      75      80
Ser Ala Gly Leu Gly Pro Lys Cys Pro Ser Val Cys Pro Pro Gly Gly
      85      90      95
Ile Pro Gln Val Thr Val Asn Lys Ser Leu Leu Ala Pro Leu Asn Val
      100      105      110
Glu Met Asp Pro Glu Ile Gln Arg Val Arg Ala Gln Glu Arg Glu Gln
      115      120      125
Ile Lys Ala Leu Asn Asn Lys Phe Ala Ser Phe Ile Asp Lys Val Arg
      130      135      140
Phe Leu Glu Gln Gln Asn Gln Val Leu Glu Thr Lys Trp Asn Leu Leu
 145      150      155      160
Gln Gln Leu Asp Leu Asn Asn Cys Arg Lys Asn Leu Glu Pro Ile Tyr
      165      170      175
Glu Gly Tyr Ile Ser Asn Leu Gln Lys Gln Leu Glu Met Leu Ser Gly
      180      185      190
Asp Gly Val Arg Leu Asp Ser Glu Leu Arg Asn Met Gln Asp Leu Val
      195      200      205
Glu Asp Tyr Lys Lys Arg Tyr Glu Val Glu Ile Asn Arg Arg Thr Ala
      210      215      220
Ala Glu Asn Glu Phe Val Val Leu Lys Lys Asp Val Asp Ala Ala Tyr
 225      230      235      240
Met Asn Lys Val Glu Leu Gln Ala Lys Val Asp Ser Leu Thr Asp Glu
      245      250      255
Ile Lys Phe Phe Lys Cys Leu Tyr Glu Gly Glu Ile Thr Gln Ile Gln
      260      265      270
Ser His Ile Ser Asp Thr Ser Ile Val Leu Ser Met Asp Asn Asn Arg
      275      280      285
Asp Leu Asp Leu Asp Ser Ile Ile Ala Glu Val Arg Ala Gln Tyr Glu
      290      295      300
Glu Ile Ala Leu Lys Ser Lys Ala Glu Ala Glu Thr Leu Tyr Gln Thr
 305      310      315      320
Lys Ile Gln Glu Leu Gln Val Thr Ala Gly Gln His Gly Asp Asp Leu
      325      330      335
Lys Leu Thr Lys Ala Glu Ile Ser Glu Leu Asn Arg Leu Ile Gln Arg
      340      345      350
Ile Arg Ser Glu Ile Gly Asn Val Lys Lys Gln Cys Ala Asp Leu Glu
      355      360      365
Thr Ala Ile Ala Asp Ala Glu Gln Arg Gly Asp Cys Ala Leu Lys Asp
      370      375      380
Ala Arg Ala Lys Leu Asp Glu Leu Glu Gly Ala Leu His Gln Ala Lys
 385      390      395      400
Glu Glu Leu Ala Arg Met Leu Arg Glu Tyr Gln Glu Leu Val Ser Leu
      405      410      415
Lys Leu Ala Leu Asp Met Glu Ile Ala Thr Tyr Arg Lys Leu Leu Glu
      420      425      430
Ser Glu Glu Cys Arg Met Ser Gly Glu Tyr Pro Asn Ser Val Ser Ile
      435      440      445
Ser Val Ile Ser Ser Thr Asn Ala Gly Ala Gly Gly Ala Gly Phe Ser
      450      455      460
Met Gly Phe Gly Ala Ser Ser Ser Tyr Ser Tyr Lys Thr Ala Ala Ala
 465      470      475      480
Asp Val Lys Thr Lys Gly Ser Cys Gly Ser Glu Leu Lys Asp Pro Leu
      485      490      495
Ala Lys Thr Ser Gly Ser Ser Cys Ala Thr Lys Lys Ala Ser Arg
      500      505      510

```

<210> 461

<211> 540

Siemens 0022 Seq Listing.txt

<212> PRT

<213> Homo sapiens

<400> 461

```

Met Ser Arg Gln Phe Thr Tyr Lys Ser Gly Ala Ala Ala Lys Gly Gly
1      5      10      15
Phe Ser Gly Cys Ser Ala Val Leu Ser Gly Gly Ser Ser Ser Ser Tyr
20      25      30
Arg Ala Gly Gly Lys Gly Leu Ser Gly Gly Phe Ser Ser Arg Ser Leu
35      40      45
Tyr Ser Leu Gly Gly Ala Arg Ser Ile Ser Phe Asn Val Ala Ser Gly
50      55      60
Ser Gly Trp Ala Gly Gly Tyr Gly Phe Gly Arg Gly Arg Ala Ser Gly
65      70      75      80
Phe Ala Gly Ser Met Phe Gly Ser Val Ala Leu Gly Ser Val Cys Pro
85      90      95
Ser Leu Cys Pro Gly Gly Ile His Gln Val Thr Ile Asn Lys Ser
100     105     110
Leu Leu Ala Pro Leu Asn Val Glu Leu Asp Pro Glu Ile Gln Lys Val
115     120     125
Arg Ala Gln Glu Arg Glu Gln Ile Lys Val Leu Asn Asn Lys Phe Ala
130     135     140
Ser Phe Ile Asp Lys Val Arg Phe Leu Glu Gln Gln Asn Gln Val Leu
145     150     155     160
Glu Thr Lys Trp Glu Leu Leu Gln Gln Leu Asp Leu Asn Asn Cys Lys
165     170     175
Asn Asn Leu Glu Pro Ile Leu Glu Gly Tyr Ile Ser Asn Leu Arg Lys
180     185     190
Gln Leu Glu Thr Leu Ser Gly Asp Arg Val Arg Leu Asp Ser Glu Leu
195     200     205
Arg Ser Val Arg Glu Val Val Glu Asp Tyr Lys Lys Arg Tyr Glu Glu
210     215     220
Glu Ile Asn Lys Arg Thr Thr Ala Glu Asn Glu Phe Val Val Leu Lys
225     230     235     240
Lys Asp Val Asp Ala Ala Tyr Thr Ser Lys Val Glu Leu Gln Ala Lys
245     250     255     260
Val Asp Ala Leu Asp Gly Glu Ile Lys Phe Phe Lys Cys Leu Tyr Glu
265     270
Gly Glu Thr Ala Gln Ile Gln Ser His Ile Ser Asp Thr Ser Ile Ile
275     280     285
Leu Ser Met Asp Asn Asn Arg Asn Leu Asp Leu Asp Ser Ile Ile Ala
290     295     300
Glu Val Arg Ala Gln Tyr Glu Glu Ile Ala Arg Lys Ser Lys Ala Glu
305     310     315     320
Ala Glu Ala Leu Tyr Gln Thr Lys Phe Gln Glu Leu Gln Leu Ala Ala
325     330     335
Gly Arg His Gly Asp Asp Leu Lys His Thr Lys Asn Glu Ile Ser Glu
340     345     350
Leu Thr Arg Leu Ile Gln Arg Leu Arg Ser Glu Ile Glu Ser Val Lys
355     360     365
Lys Gln Cys Ala Asn Leu Glu Thr Ala Ile Ala Asp Ala Glu Gln Arg
370     375     380
Gly Asp Cys Ala Leu Lys Asp Ala Arg Ala Lys Leu Asp Glu Leu Glu
385     390     395     400
Gly Ala Leu Gln Gln Ala Lys Glu Glu Leu Ala Arg Met Leu Arg Glu
405     410     415
Tyr Gln Glu Leu Ser Val Lys Leu Ser Leu Asp Ile Glu Ile Ala
420     425     430
Thr Tyr Arg Lys Leu Leu Glu Gly Glu Glu Cys Arg Met Ser Gly Glu

```

Siemens 0022 Seq Listing.txt

```

      435
Tyr Thr Asn Ser Val Ser Ile Ser Val Ile Asn Ser Ser Met Ala Gly
      450      455      460
Met Ala Gly Thr Gly Ala Gly Phe Gly Phe Ser Asn Ala Gly Thr Tyr
      465      470      475      480
Gly Tyr Trp Pro Ser Val Ser Gly Gly Tyr Ser Met Leu Pro Gly
      485      490      495
Gly Cys Val Thr Gly Ser Gly Asn Cys Ser Pro Arg Gly Glu Ala Arg
      500      505      510
Thr Arg Leu Gly Ser Ala Ser Glu Phe Arg Asp Ser Gln Gly Lys Thr
      515      520      525
Leu Ala Leu Ser Ser Pro Thr Lys Lys Thr Met Arg
      530      535      540

```

<210> 462

<211> 645

<212> PRT

<213> Homo sapiens

<400> 462

```

Met Ser Cys Gln Ile Ser Cys Lys Ser Arg Gly Arg Gly Gly Gly Gly
1      5      10      15
Gly Gly Phe Arg Gly Phe Ser Ser Gly Ser Ala Val Val Ser Gly Gly
      20      25      30
Ser Arg Arg Ser Thr Ser Ser Phe Ser Cys Leu Ser Arg His Gly Gly
      35      40      45
Gly Gly Gly Gly Phe Gly Gly Gly Gly Phe Gly Ser Arg Ser Leu Val
      50      55      60
Gly Leu Gly Gly Thr Lys Ser Ile Ser Ile Ser Val Ala Gly Gly Gly
      65      70      75      80
Gly Gly Phe Gly Ala Gly Gly Phe Gly Gly Arg Gly Gly Gly Phe
      85      90      95
Gly Gly Gly Ser Gly Phe Gly Gly Gly Ser Gly Phe Gly Gly Gly Ser
      100      105      110
Gly Phe Ser Gly Gly Gly Phe Gly Gly Gly Phe Gly Gly Gly Arg
      115      120      125
Phe Gly Gly Phe Gly Gly Pro Gly Gly Val Gly Gly Leu Gly Gly Pro
      130      135      140
Gly Gly Phe Gly Pro Gly Gly Tyr Pro Gly Gly Ile His Glu Val Ser
      145      150      155      160
Val Asn Gln Ser Leu Leu Gln Pro Leu Asn Val Lys Val Asp Pro Glu
      165      170      175
Ile Gln Asn Val Lys Ala Gln Glu Arg Glu Gln Ile Lys Thr Leu Asn
      180      185      190
Asn Lys Phe Ala Ser Phe Ile Asp Lys Val Arg Phe Leu Glu Gln Gln
      195      200      205
Asn Gln Val Leu Gln Thr Lys Trp Glu Leu Leu Gln Gln Met Asn Val
      210      215      220
Gly Thr Arg Pro Ile Asn Leu Glu Pro Ile Phe Gln Gly Tyr Ile Asp
      225      230      235      240
Ser Leu Lys Arg Tyr Leu Asp Gly Leu Thr Ala Glu Arg Thr Ser Gln
      245      250      255
Asn Ser Glu Leu Asn Asn Met Gln Asp Leu Val Glu Asp Tyr Lys Lys
      260      265      270
Lys Tyr Glu Asp Glu Ile Asn Lys Arg Thr Ala Ala Glu Asn Asp Phe
      275      280      285
Val Thr Leu Lys Lys Asp Val Asp Asn Ala Tyr Met Ile Lys Val Glu
      290

```

Siemens 0022 Seq Listing.txt

```

290          295          300
Leu Gln Ser Lys Val Asp Leu Leu Asn Gln Glu Ile Glu Phe Leu Lys
305 Val Leu Tyr Asp Ala Glu Ile Ser Gln Ile His Gln Ser Val Thr Asp
310          315          320
Val Leu Tyr Asp Ala Glu Ile Ser Gln Ile His Gln Ser Val Thr Asp
325          330          335
Thr Asn Val Ile Leu Ser Met Asp Asn Ser Arg Asn Leu Asp Leu Asp
340          345          350
Ser Ile Ile Ala Glu Val Lys Ala Gln Tyr Glu Glu Ile Ala Gln Arg
355          360          365
Ser Lys Glu Glu Ala Glu Ala Leu Tyr His Ser Lys Tyr Glu Glu Leu
370          375          380
Gln Val Thr Val Gly Arg His Gly Asp Ser Leu Lys Glu Ile Lys Ile
385          390          400
Glu Ile Ser Glu Leu Asn Arg Val Ile Gln Arg Leu Gln Gly Glu Ile
405          410          415
Ala His Val Lys Lys Gln Cys Lys Asn Val Gln Asp Ala Ile Ala Asp
420          425          430
Ala Glu Gln Arg Gly Glu His Ala Leu Lys Asp Ala Arg Asn Lys Leu
435          440          445
Asn Asp Leu Glu Glu Ala Leu Gln Gln Ala Lys Glu Asp Leu Ala Arg
450          455          460
Leu Leu Arg Asp Tyr Gln Glu Leu Met Asn Val Lys Leu Ala Leu Asp
465          470          475
Val Glu Ile Ala Thr Tyr Arg Lys Leu Leu Glu Gly Glu Glu Cys Arg
485          490          495
Met Ser Gly Asp Leu Ser Ser Asn Val Thr Val Ser Val Thr Ser Ser
500          505          510
Thr Ile Ser Ser Asn Val Ala Ser Lys Ala Ala Phe Gly Gly Ser Gly
515          520          525
Gly Arg Gly Ser Ser Ser Gly Gly Tyr Ser Ser Gly Ser Ser Ser
530          535          540
Tyr Gly Ser Gly Gly Arg Gln Ser Gly Ser Arg Gly Ser Gly Gly
545          550          555
Gly Gly Ser Ile Ser Gly Gly Gly Tyr Gly Ser Gly Gly Gly Ser Gly
565          570          575
Gly Arg Tyr Gly Ser Gly Gly Gly Ser Lys Gly Gly Ser Ile Ser Gly
580          585          590
Gly Gly Tyr Gly Ser Gly Gly Gly Lys His Ser Ser Gly Gly Gly Ser
595          600          605
Arg Gly Gly Ser Ser Ser Gly Gly Gly Tyr Gly Ser Gly Gly Gly Gly
610          615          620
Ser Ser Ser Val Lys Gly Ser Ser Gly Glu Ala Phe Gly Ser Ser Val
625          630          635
Thr Phe Ser Phe Arg
645

```

<210> 463

<211> 644

<212> PRT

<213> Homo sapiens

<400> 463

```

Met Ser Arg Gln Phe Ser Ser Arg Ser Gly Tyr Arg Ser Gly Gly Gly
1      5      10      15
Phe Ser Ser Gly Ser Ala Gly Ile Ile Asn Tyr Gln Arg Arg Thr Thr
20      25      30
Ser Ser Ser Thr Arg Arg Ser Gly Gly Gly Gly Arg Phe Ser Ser

```

40

Siemens 0022 Seq Listing.txt

Gly Gly Gly Gly Arg Gly Ser Tyr Gly Ser Gly Gly Ser Ser Tyr Gly
 545 550 555 560
 Ser Gly Gly Gly Ser Tyr Gly Ser Gly Gly Gly Gly Gly His Gly
 565 570 575
 Ser Tyr Gly Ser Gly Ser Ser Gly Gly Tyr Arg Gly Gly Ser Gly
 580 585 590
 Gly Gly Gly Gly Gly Ser Ser Gly Arg Gly Ser Gly Gly Ser
 595 600 605
 Ser Gly Gly Ser Ile Gly Gly Arg Gly Ser Ser Ser Gly Gly Val Lys
 610 615 620
 Ser Ser Gly Gly Ser Ser Val Arg Phe Val Ser Thr Thr Tyr Ser
 625 630 635 640
 Gly Val Thr Arg

<210> 464

<211> 629

<212> PRT

<213> Homo sapiens

<400> 464

Met Ser Arg Gln Ala Ser Lys Thr Ser Gly Gly Gly Ser Gln Gly Phe
 1 5 10 15
 Ser Gly Arg Ser Ala Val Val Ser Gly Ser Ser Arg Met Ser Cys Val
 20 25 30
 Ala His Ser Gly Gly Ala Gly Gly Ala Tyr Gly Phe Arg Ser Gly
 35 40 45
 Ala Gly Gly Phe Gly Ser Arg Ser Leu Tyr Asn Leu Gly Gly Asn Lys
 50 55 60
 Ser Ile Ser Ile Ser Val Ala Ala Gly Gly Ser Arg Ala Gly Gly Phe
 65 70 75 80
 Gly Gly Gly Arg Ser Cys Ala Phe Ala Gly Gly Tyr Gly Gly Gly
 85 90 95
 Phe Gly Ser Gly Tyr Gly Gly Gly Phe Gly Gly Gly Phe Gly Gly Gly
 100 105 110
 Arg Gly Met Gly Gly Gly Phe Gly Ala Gly Gly Phe Gly Gly Ala
 115 120 125
 Gly Gly Phe Gly Gly Ala Gly Gly Phe Gly Gly Pro Gly Phe Gly
 130 135 140
 Gly Ser Gly Gly Phe Gly Gly Pro Gly Ser Leu Gly Ser Pro Gly Gly
 145 150 155 160
 Phe Ala Pro Gly Gly Phe Pro Gly Gly Ile Gln Glu Val Thr Thr Asn
 165 170 175
 Gln Ser Leu Leu Gln Pro Leu Lys Val Glu Thr Asp Pro Gln Ile Gly
 180 185 190
 Gln Val Lys Ala Gln Glu Arg Glu Gln Ile Lys Thr Leu Asn Asn Lys
 195 200 205
 Phe Ala Ser Phe Ile Asp Lys Val Arg Phe Leu Glu Gln Gln Asn Lys
 210 215 220
 Val Leu Glu Thr Lys Trp Asn Leu Leu Gln Gln Gln Gly Thr Ser Ser
 225 230 235 240
 Ile Ser Gly Thr Asn Asn Leu Glu Pro Leu Phe Glu Asn His Ile Asn
 245 250 255
 Tyr Leu Arg Ser Tyr Leu Asp Asn Ile Leu Gly Glu Arg Gly Arg Leu
 260 265 270
 Asp Ser Glu Leu Lys Asn Met Glu Asp Leu Val Glu Asp Phe Lys Lys
 275 280 285

Siemens 0022 Seq Listing.txt

```

Lys Tyr Glu Asp Glu Ile Asn Lys Arg Thr Ala Glu Asn Glu Phe
290 295 300
Val Thr Leu Lys Lys Asp Val Asp Ser Ala Tyr Met Asn Lys Val Glu
305 310 315 320
Leu Gln Ala Lys Val Asp Ala Leu Ile Asp Glu Ile Asp Phe Leu Arg
325 330 335
Thr Leu Tyr Asp Ala Glu Leu Ser Gln Met Gln Ser His Ile Ser Asp
340 345 350
Thr Ser Val Val Leu Ser Met Asp Asn Asn Arg Ser Leu Asp Leu Asp
355 360 365
Ser Ile Ile Ala Glu Val Gly Ala Gln Tyr Glu Asp Ile Ala Gln Arg
370 375 380
Ser Lys Ala Glu Ala Glu Ala Leu Tyr Gln Thr Lys Leu Gly Glu Leu
385 390 395 400
Gln Thr Thr Ala Gly Arg His Gly Asp Asp Leu Arg Asn Thr Lys Ser
405 410 415
Glu Ile Ile Glu Leu Asn Arg Met Ile Gln Arg Leu Arg Ala Glu Ile
420 425 430
Glu Gly Val Lys Lys Gln Asn Ala Asn Leu Gln Thr Ala Ile Ala Gln
435 440 445
Ala Glu Gln His Gly Glu Met Ala Leu Lys Asp Ala Asn Ala Lys Leu
450 455 460
Gln Glu Leu Gln Ala Ala Leu Gln Gln Ala Lys Asp Asp Leu Ala Arg
465 470 475 480
Leu Leu Arg Asp Tyr Gln Glu Leu Met Asn Val Lys Leu Ala Leu Asp
485 490 495
Val Glu Ile Ala Thr Tyr Arg Lys Leu Leu Glu Gly Glu Glu Tyr Ser
500 505 510
Arg Met Ser Gly Glu Cys Pro Ser Ala Val Ser Ile Ser Val Val Ser
515 520 525
Ser Ser Thr Thr Ser Ala Ser Ala Gly Gly Tyr Gly Gly Tyr Gly
530 535 540
Gly Gly Met Gly Gly Gly Leu Gly Gly Gly Phe Ser Ala Gly Gly Gly
545 550 555 560
Ser Gly Ile Gly Phe Gly Arg Gly Gly Gly Gly Ile Gly Gly Gly
565 570 575
Phe Gly Gly Gly Thr Ser Gly Phe Ser Gly Gly Ser Gly Phe Gly Ser
580 585 590
Ile Ser Gly Ala Arg Tyr Gly Val Ser Gly Gly Gly Phe Ser Ser Ala
595 600 605
Ser Asn Arg Gly Gly Ser Ile Lys Phe Ser Gln Ser Ser Gln Ser Ser
610 615 620
Gln Arg Tyr Ser Arg
625

```

<210> 465

<211> 534

<212> PRT

<213> Homo sapiens

<400> 465

```

Met Ile Ala Arg Gln Gln Cys Val Arg Gly Gly Pro Arg Gly Phe Ser
1 5 10 15
Cys Gly Ser Ala Ile Val Gly Gly Gly Lys Arg Gly Ala Phe Ser Ser
20 25 30
Val Ser Met Ser Gly Gly Ala Gly Arg Cys Ser Ser Gly Gly Phe Gly
35 40 45

```

Siemens 0022 Seq Listing.txt

Ser	Arg	Ser	Leu	Tyr	Asn	Leu	Arg	Gly	Asn	Lys	Ser	Ile	Ser	Met	Ser
50						55					60				
Val	Ala	Gly	Ser	Arg	Gln	Gly	Ala	Cys	Phe	Gly	Gly	Ala	Gly	Gly	Phe
65					70					75					80
Gly	Thr	Gly	Gly	Phe	Gly	Ala	Gly	Gly	Phe	Gly	Ala	Gly	Phe	Gly	Thr
				85					90					95	
Gly	Gly	Phe	Gly	Gly	Gly	Phe	Gly	Gly	Ser	Phe	Ser	Gly	Lys	Gly	Gly
			100					105					110		
Pro	Gly	Phe	Pro	Val	Cys	Pro	Ala	Gly	Gly	Ile	Gln	Glu	Val	Thr	Ile
		115					120					125			
Asn	Gln	Ser	Leu	Leu	Thr	Pro	Leu	His	Val	Glu	Ile	Asp	Pro	Glu	Ile
	130					135					140				
Gln	Lys	Val	Arg	Thr	Glu	Arg	Glu	Gln	Ile	Lys	Leu	Leu	Asn	Asn	
145					150					155					160
Lys	Phe	Ala	Ser	Phe	Ile	Asp	Lys	Val	Gln	Phe	Leu	Glu	Gln	Gln	Asn
				165					170					175	
Lys	Val	Leu	Glu	Thr	Lys	Trp	Asn	Leu	Leu	Gln	Gln	Gln	Thr	Thr	Thr
			180					185					190		
Thr	Ser	Ser	Lys	Asn	Leu	Glu	Pro	Leu	Phe	Glu	Thr	Tyr	Leu	Ser	Val
		195					200					205			
Leu	Arg	Lys	Gln	Leu	Asp	Thr	Leu	Gly	Asn	Asp	Lys	Gly	Arg	Leu	Gln
	210					215					220				
Ser	Glu	Leu	Lys	Thr	Met	Gln	Asp	Ser	Val	Glu	Asp	Phe	Lys	Thr	Lys
225					230					235					240
Tyr	Glu	Glu	Glu	Ile	Asn	Lys	Arg	Thr	Ala	Ala	Glu	Asn	Asp	Phe	Val
				245					250					255	
Val	Leu	Lys	Lys	Asp	Val	Asp	Ala	Ala	Tyr	Leu	Asn	Lys	Val	Glu	Leu
			260					265					270		
Glu	Ala	Lys	Val	Asp	Ser	Leu	Asn	Asp	Glu	Ile	Asn	Phe	Leu	Lys	Val
		275					280					285			
Leu	Tyr	Asp	Ala	Glu	Leu	Ser	Gln	Met	Gln	Thr	His	Val	Ser	Asp	Thr
	290					295					300				
Ser	Val	Val	Leu	Ser	Met	Asp	Asn	Asn	Arg	Asn	Leu	Asp	Leu	Asp	Ser
305					310					315					320
Ile	Ile	Ala	Glu	Val	Arg	Ala	Gln	Tyr	Glu	Glu	Ile	Ala	Gln	Arg	Ser
				325					330					335	
Lys	Ala	Glu	Ala	Glu	Ala	Leu	Tyr	Gln	Thr	Lys	Val	Gln	Gln	Leu	Gln
			340					345					350		
Ile	Ser	Val	Asp	Gln	His	Gly	Asp	Asn	Leu	Lys	Asn	Thr	Lys	Ser	Glu
		355					360					365			
Ile	Ala	Glu	Leu	Asn	Arg	Met	Ile	Gln	Arg	Leu	Arg	Ala	Glu	Ile	Glu
	370					375					380				
Asn	Ile	Lys	Lys	Gln	Cys	Gln	Thr	Leu	Gln	Val	Ser	Val	Ala	Asp	Ala
385					390					395					400
Glu	Gln	Arg	Gly	Glu	Asn	Ala	Leu	Lys	Asp	Ala	His	Ser	Lys	Arg	Val
				405					410					415	
Glu	Leu	Glu	Ala	Ala	Leu	Gln	Gln	Ala	Lys	Glu	Glu	Leu	Ala	Arg	Met
			420					425					430		
Leu	Arg	Glu	Tyr	Gln	Glu	Leu	Met	Ser	Val	Lys	Leu	Ala	Leu	Asp	Ile
		435					440					445			
Glu	Ile	Ala	Thr	Tyr	Arg	Lys	Leu	Leu	Glu	Gly	Glu	Glu	Tyr	Arg	Met
	450					455					460				
Ser	Gly	Glu	Cys	Gln	Ser	Ala	Val	Ser	Ile	Ser	Val	Val	Ser	Gly	Ser
465					470					475					480
Thr	Ser	Thr	Gly	Gly	Ile	Ser	Gly	Gly	Leu	Gly	Ser	Gly	Ser	Gly	Phe
				485					490					495	
Gly	Leu	Ser	Ser	Gly	Phe	Gly	Ser	Gly	Ser	Gly	Ser	Gly	Phe	Gly	Phe
			500						505				510		
Gly	Gly	Ser	Val	Ser	Gly	Ser	Ser	Ser	Lys	Ile	Ile	Ser	Thr	Thr	
		515					520				525				
Thr	Leu	Asn	Lys	Arg	Arg										
	530														

Siemens 0022 Seq Listing.txt

<210> 466

<211> 483

<212> PRT

<213> Homo sapiens

<400> 466

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Met Ser Ile Arg Val Thr Gln Lys Ser Tyr Lys Val Ser Thr Ser Gly
1      5      10      15
Pro Arg Ala Phe Ser Ser Arg Ser Tyr Thr Ser Gly Pro Gly Ser Arg
      20      25      30
Ile Ser Ser Ser Ser Phe Ser Arg Val Gly Ser Ser Asn Phe Arg Gly
      35      40      45
Gly Leu Gly Gly Gly Tyr Gly Gly Ala Ser Gly Met Gly Gly Ile Thr
      50      55      60
Ala Val Thr Val Asn Gln Ser Leu Leu Ser Pro Leu Val Leu Glu Val
      65      70      75      80
Asp Pro Asn Ile Gln Ala Val Arg Thr Gln Glu Lys Glu Gln Ile Lys
      85      90      95
Thr Leu Asn Asn Lys Phe Ala Ser Phe Ile Asp Lys Val Arg Phe Leu
      100      105      110
Glu Gln Gln Asn Lys Met Leu Glu Thr Lys Trp Ser Leu Leu Gln Gln
      115      120      125
Gln Lys Thr Ala Arg Ser Asn Met Asp Asn Met Phe Glu Ser Tyr Ile
      130      135      140
Asn Asn Leu Arg Arg Gln Leu Glu Thr Leu Gly Gln Glu Lys Leu Lys
      145      150      155      160
Leu Glu Ala Glu Leu Gly Asn Met Gln Gly Leu Val Glu Asp Phe Lys
      165      170      175
Asn Lys Tyr Glu Asp Glu Ile Asn Lys Arg Thr Glu Met Glu Asn Glu
      180      185      190
Phe Val Leu Ile Lys Lys Asp Val Asp Glu Ala Tyr Met Asn Lys Val
      195      200      205
Glu Leu Glu Ser Arg Leu Glu Gly Leu Thr Asp Glu Ile Asn Phe Leu
      210      215      220
Arg Gln Leu Tyr Glu Glu Glu Ile Arg Glu Leu Gln Ser Gln Ile Ser
      225      230      235      240
Asp Thr Ser Val Val Leu Ser Met Asp Asn Ser Arg Ser Leu Asp Met
      245      250      255
Asp Ser Ile Ile Ala Glu Val Lys Ala Gln Tyr Glu Asp Ile Ala Asn
      260      265      270
Arg Ser Arg Ala Glu Ala Glu Ser Met Tyr Gln Ile Lys Tyr Glu Glu
      275      280      285
Leu Gln Ser Leu Ala Gly Lys His Gly Asp Asp Leu Arg Arg Thr Lys
      290      295      300
Thr Glu Ile Ser Glu Met Asn Arg Asn Ile Ser Arg Leu Gln Ala Glu
      305      310      315      320
Ile Glu Gly Leu Lys Gly Gln Arg Ala Ser Leu Glu Ala Ala Ile Ala
      325      330      335
Asp Ala Glu Gln Arg Gly Glu Leu Ala Ile Lys Asp Ala Asn Ala Lys
      340      345      350
Leu Ser Glu Leu Glu Ala Ala Leu Gln Arg Ala Lys Gln Asp Met Ala
      355      360      365
Arg Gln Leu Arg Glu Tyr Gln Glu Leu Met Asn Val Lys Leu Ala Leu
      370      375      380
Asp Ile Glu Ile Ala Thr Tyr Arg Lys Leu Leu Glu Gly Glu Glu Ser
      385      390      395      400
Arg Leu Glu Ser Gly Met Gln Asn Met Ser Ile His Thr Lys Thr Thr

```


Siemens 0022 Seq Listing.txt

405
 Ser Gly Tyr Ala Gly Gly Leu Ser Ser Ala Tyr Gly Gly Leu Thr Ser
 420 425 430
 Pro Gly Leu Ser Tyr Ser Leu Gly Ser Ser Phe Gly Ser Gly Ala Gly
 435 440 445
 Ser Ser Ser Phe Ser Arg Thr Ser Ser Ser Arg Ala Val Val Val Lys
 450 455 460
 Lys Ile Glu Thr Arg Asp Gly Lys Leu Val Ser Glu Ser Ser Asp Val
 465 470 475 480
 Leu Pro Lys

<210> 467

<211> 430

<212> PRT

<213> Homo sapiens

<400> 467
 Met Ser Phe Thr Thr Arg Ser Thr Phe Ser Thr Asn Tyr Arg Ser Leu
 1 5 10 15
 Gly Ser Val Gln Ala Pro Ser Tyr Gly Ala Arg Pro Val Ser Ser Ala
 20 25 30
 Ala Ser Val Tyr Ala Gly Ala Gly Ser Gly Ser Arg Ile Ser Val
 35 40 45
 Ser Arg Ser Thr Ser Phe Arg Gly Gly Met Gly Ser Gly Leu Ala
 50 55 60
 Thr Gly Ile Ala Gly Gly Leu Ala Gly Met Gly Gly Ile Gln Asn Glu
 65 70 75 80
 Lys Glu Thr Met Gln Ser Leu Asn Asp Arg Leu Ala Ser Tyr Leu Asp
 85 90 95
 Arg Val Arg Ser Leu Glu Thr Glu Asn Arg Arg Leu Glu Ser Lys Ile
 100 105 110
 Arg Glu His Leu Glu Lys Lys Gly Pro Gln Val Arg Asp Trp Ser His
 115 120 125
 Tyr Phe Lys Ile Ile Glu Asp Leu Arg Ala Gln Ile Phe Ala Asn Thr
 130 135 140
 Val Asp Asn Ala Arg Ile Val Leu Gln Ile Asp Asn Ala Arg Leu Ala
 145 150 155 160
 Ala Asp Asp Phe Arg Val Lys Tyr Glu Thr Glu Leu Ala Met Arg Gln
 165 170 175
 Ser Val Glu Asn Asp Ile His Gly Leu Arg Lys Val Ile Asp Asp Thr
 180 185 190
 Asn Ile Thr Arg Leu Gln Leu Glu Thr Glu Ile Glu Ala Leu Lys Glu
 195 200 205
 Glu Leu Leu Phe Met Lys Lys Asn His Glu Glu Glu Val Lys Gly Leu
 210 215 220
 Gln Ala Gln Ile Ala Ser Ser Gly Leu Thr Val Glu Val Asp Ala Pro
 225 230 235 240
 Lys Ser Gln Asp Leu Ala Lys Ile Met Ala Asp Ile Arg Ala Gln Tyr
 245 250 255
 Asp Glu Leu Ala Arg Lys Asn Arg Glu Glu Leu Asp Lys Tyr Trp Ser
 260 265 270
 Gln Gln Ile Glu Glu Ser Thr Thr Val Val Thr Thr Gln Ser Ala Glu
 275 280 285
 Val Gly Ala Ala Glu Thr Thr Leu Thr Glu Leu Arg Arg Thr Val Gln
 290 295 300
 Ser Leu Glu Ile Asp Leu Asp Ser Met Arg Asn Leu Lys Ala Ser Leu

Siemens 0022 Seq Listing.txt

305	Glu	Asn	Ser	Leu	Arg	310	Glu	Val	Glu	Ala	Arg	315	Tyr	Ala	Leu	Gln	Met	320	Glu
					325							330					335		
	Gln	Leu	Asn	Gly	Ile	Leu	Leu	His	Leu	Glu	Glu	Ser	Glu	Leu	Ala	Gln	Thr		
				340					345							350			
	Arg	Ala	Glu	Gly	Gln	Arg	Gln	Ala	Gln	Glu	Tyr	Glu	Ala	Leu	Leu	Asn			
			355					360						365					
	Ile	Lys	Val	Lys	Leu	Glu	Ala	Glu	Ile	Ala	Thr	Tyr	Arg	Arg	Leu	Leu			
			370					375					380						
	Glu	Asp	Gly	Glu	Asp	Phe	Asn	Leu	Gly	Asp	Ala	Leu	Asp	Ser	Ser	Asn			
385						390					395					400			
	Ser	Met	Gln	Thr	Ile	Gln	Lys	Thr	Thr	Thr	Arg	Arg	Ile	Val	Asp	Gly			
					405						410				415				
	Lys	Val	Val	Ser	Glu	Thr	Asn	Asp	Thr	Lys	Val	Leu	Arg	His					
				420					425					430					

<210> 468

<211> 392

<212> PRT

<213> Homo sapiens

<400> 468

Met	Val	Ala	Arg	Val	Gly	Leu	Leu	Leu	Arg	Ala	Leu	Gln	Leu	Leu	Leu				
1				5					10					15					
Trp	Gly	His	Leu	Asp	Ala	Gln	Pro	Ala	Glu	Arg	Gly	Gly	Gln	Glu	Leu				
			20					25					30						
Arg	Lys	Glu	Ala	Glu	Ala	Phe	Leu	Glu	Lys	Tyr	Gly	Tyr	Leu	Asn	Glu				
			35				40					45							
Gln	Val	Pro	Lys	Ala	Pro	Thr	Ser	Thr	Arg	Phe	Ser	Asp	Ala	Ile	Arg				
			50			55				60									
Ala	Phe	Gln	Trp	Val	Ser	Gln	Leu	Pro	Val	Ser	Gly	Val	Leu	Asp	Arg				
65				70					75					80					
Ala	Thr	Leu	Arg	Gln	Met	Thr	Arg	Pro	Arg	Cys	Gly	Val	Thr	Asp	Thr				
			85					90					95						
Asn	Ser	Tyr	Ala	Ala	Trp	Ala	Glu	Arg	Ile	Ser	Asp	Leu	Phe	Ala	Arg				
			100					105					110						
His	Arg	Thr	Lys	Met	Arg	Arg	Lys	Lys	Arg	Phe	Ala	Lys	Gln	Gly	Asn				
		115					120					125							
Lys	Trp	Tyr	Lys	Gln	His	Leu	Ser	Tyr	Arg	Leu	Val	Asn	Trp	Pro	Glu				
			130			135					140								
His	Leu	Pro	Glu	Pro	Ala	Val	Arg	Gly	Ala	Val	Arg	Ala	Ala	Phe	Gln				
145					150				155					160					
Leu	Trp	Ser	Asn	Val	Ser	Ala	Leu	Glu	Phe	Trp	Glu	Ala	Pro	Ala	Thr				
			165						170					175					
Gly	Pro	Ala	Asp	Ile	Arg	Leu	Thr	Phe	Phe	Gln	Gly	Asp	His	Asn	Asp				
			180					185					190						
Gly	Leu	Gly	Asn	Ala	Phe	Asp	Gly	Pro	Gly	Gly	Ala	Leu	Ala	His	Ala				
		195					200					205							
Phe	Leu	Pro	Arg	Arg	Gly	Glu	Ala	His	Phe	Asp	Gln	Asp	Glu	Arg	Trp				
		210				215					220								
Ser	Leu	Ser	Arg	Arg	Arg	Gly	Arg	Asn	Leu	Phe	Val	Val	Leu	Ala	His				
225					230				235					240					
Glu	Ile	Gly	His	Thr	Leu	Gly	Leu	Thr	His	Ser	Pro	Ala	Pro	Arg	Ala				
			245						250					255					
Leu	Met	Ala	Pro	Tyr	Tyr	Lys	Arg	Leu	Gly	Arg	Asp	Ala	Leu	Leu	Ser				
			260					265					270						
Trp	Asp	Asp	Val	Leu	Ala	Val	Gln	Ser	Leu	Tyr	Gly	Lys	Pro	Leu	Gly				

Siemens 0022 Seq Listing.txt

275
 Gly Ser Val Ala Val Gln Leu Pro Gly Lys Leu Phe Thr Asp Phe Glu
 290
 Thr Trp Asp Ser Tyr Ser Pro Gln Gly Arg Arg Pro Glu Thr Gln Gly
 305
 Pro Lys Tyr Cys His Ser Ser Phe Asp Ala Ile Thr Val Asp Arg Gln
 325
 Gln Gln Leu Tyr Ile Phe Lys Gly Ser His Phe Trp Glu Val Ala Ala
 340
 Asp Gly Asn Val Ser Glu Pro Arg Pro Leu Gln Glu Arg Trp Val Gly
 355
 Leu Pro Pro Asn Ile Glu Ala Ala Val Ser Leu Asn Asp Gly Asp
 370
 Phe Tyr Phe Phe Lys Val Gln Ser
 385
 390

<210> 469

<211> 851

<212> PRT

<213> Homo sapiens

<400> 469

Met Ala Gln Trp Glu Met Leu Gln Asn Leu Asp Ser Pro Phe Gln Asp
 1
 Gln Leu His Gln Leu Tyr Ser His Ser Leu Leu Pro Val Asp Ile Arg
 20
 Gln Tyr Leu Ala Val Trp Ile Glu Asp Gln Asn Trp Gln Glu Ala Ala
 35
 Leu Gly Ser Asp Asp Ser Lys Ala Thr Met Leu Phe Phe His Phe Leu
 50
 Asp Gln Leu Asn Tyr Glu Cys Gly Arg Cys Ser Gln Asp Pro Glu Ser
 65
 Leu Leu Leu Gln His Asn Leu Arg Lys Phe Cys Arg Asp Ile Gln Pro
 85
 Phe Ser Gln Asp Pro Thr Gln Leu Ala Glu Met Ile Phe Asn Leu Leu
 100
 Leu Glu Glu Lys Arg Ile Leu Ile Gln Ala Gln Arg Ala Gln Leu Glu
 115
 Gln Gly Glu Pro Val Leu Glu Thr Pro Val Glu Ser Gln Gln His Glu
 130
 Ile Glu Ser Arg Ile Leu Asp Leu Arg Ala Met Met Glu Lys Leu Val
 145
 Lys Ser Ile Ser Gln Leu Lys Asp Gln Gln Asp Val Phe Cys Phe Arg
 165
 Tyr Lys Ile Gln Ala Lys Gly Lys Thr Pro Ser Leu Asp Pro His Gln
 180
 Thr Lys Glu Gln Lys Ile Leu Gln Glu Thr Leu Asn Glu Leu Asp Lys
 195
 Arg Arg Lys Glu Val Leu Asp Ala Ser Lys Ala Leu Leu Gly Arg Leu
 210
 Thr Thr Leu Ile Glu Leu Leu Leu Pro Lys Leu Glu Glu Trp Lys Ala
 225
 Gln Gln Gln Lys Ala Cys Ile Arg Ala Pro Ile Asp His Gly Leu Glu
 245
 Gln Leu Glu Thr Trp Phe Thr Ala Gly Ala Lys Leu Leu Phe His Leu
 260
 Arg Gln Leu Leu Lys Glu Leu Lys Gly Leu Ser Cys Leu Val Ser Tyr
 299

Siemens 0022 Seq Listing.txt

		275					280					285			
Gln	Asp	Asp	Pro	Leu	Thr	Lys	Gly	Val	Asp	Leu	Arg	Asn	Ala	Gln	Val
Thr	290	Glu	Leu	Leu	Gln	Arg	Leu	His	Arg	Ala	Phe	Val	Val	Glu	Thr
305					310					315					320
Gln	Pro	Cys	Met	Pro	Gln	Thr	Pro	His	Arg	Pro	Leu	Ile	Leu	Lys	Thr
				325					330					335	
Gly	Ser	Lys	Phe	Thr	Val	Arg	Thr	Arg	Leu	Leu	Val	Arg	Leu	Gln	Glu
			340					345					350		
Gly	Asn	Glu	Ser	Leu	Thr	Val	Glu	Val	Ser	Ile	Asp	Arg	Asn	Pro	Pro
		355										365			
Gln	Leu	Gln	Gly	Phe	Arg	Lys	Phe	Asn	Ile	Leu	Thr	Ser	Asn	Gln	Lys
	370					375					380				
Thr	Leu	Thr	Pro	Glu	Lys	Gly	Gln	Ser	Gln	Gly	Leu	Ile	Trp	Asp	Phe
385					390					395					400
Gly	Tyr	Leu	Thr	Leu	Val	Glu	Gln	Arg	Ser	Gly	Gly	Ser	Gly	Lys	Gly
				405					410					415	
Ser	Asn	Lys	Gly	Pro	Leu	Gly	Val	Thr	Glu	Glu	Leu	His	Ile	Ile	Ser
			420					425					430		
Phe	Thr	Val	Lys	Tyr	Thr	Tyr	Gln	Gly	Leu	Lys	Gln	Glu	Leu	Lys	Thr
		435					440					445			
Asp	Thr	Leu	Pro	Val	Val	Ile	Ile	Ser	Asn	Met	Asn	Gln	Leu	Ser	Ile
	450					455					460				
Ala	Trp	Ala	Ser	Val	Leu	Trp	Phe	Asn	Leu	Leu	Ser	Pro	Asn	Leu	Gln
465					470					475					480
Asn	Gln	Gln	Phe	Phe	Ser	Asn	Pro	Pro	Lys	Ala	Pro	Trp	Ser	Leu	Leu
			485					490						495	
Gly	Pro	Ala	Leu	Ser	Trp	Gln	Phe	Ser	Ser	Tyr	Val	Gly	Arg	Gly	Leu
			500					505					510		
Asn	Ser	Asp	Gln	Leu	Ser	Met	Leu	Arg	Asn	Lys	Leu	Phe	Gly	Gln	Asn
		515					520					525			
Cys	Arg	Thr	Glu	Asp	Pro	Leu	Leu	Ser	Trp	Ala	Asp	Phe	Thr	Lys	Arg
	530					535					540				
Glu	Ser	Pro	Pro	Gly	Lys	Leu	Pro	Phe	Trp	Thr	Trp	Leu	Asp	Lys	Ile
545					550					555					560
Leu	Glu	Leu	Val	His	Asp	His	Leu	Lys	Asp	Leu	Trp	Asn	Asp	Gly	Arg
				565					570					575	
Ile	Met	Gly	Phe	Val	Ser	Arg	Ser	Gln	Glu	Arg	Arg	Leu	Leu	Lys	Lys
			580					585					590		
Thr	Met	Ser	Gly	Thr	Phe	Leu	Leu	Arg	Phe	Ser	Glu	Ser	Ser	Glu	Gly
		595					600					605			
Gly	Ile	Thr	Cys	Ser	Trp	Val	Glu	His	Gln	Asp	Asp	Asp	Lys	Val	Leu
	610					615									
Ile	Tyr	Ser	Val	Gln	Pro	Tyr	Thr	Lys	Glu	Val	Leu	Gln	Ser	Leu	Pro
625					630					635					640
Leu	Thr	Glu													

Siemens 0022 Seq Listing.txt

```

Pro Val Pro Glu Pro Asp Leu Pro Cys Asp Leu Arg His Leu Asn Thr
785      790      795      800
Glu Pro Met Glu Ile Phe Arg Asn Cys Val Lys Ile Glu Glu Ile Met
      805      810      815
Pro Asn Gly Asp Pro Leu Leu Ala Gly Gln Asn Thr Val Asp Glu Val
      820      825      830
Tyr Val Ser Arg Pro Ser His Phe Tyr Thr Asp Gly Pro Leu Met Pro
      835      840      845
Ser Asp Phe
      850

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<210> 470

<211> 335

<212> PRT

<213> Homo sapiens

<400> 470

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Met Gly Lys Val Lys Val Gly Val Asn Gly Phe Gly Arg Ile Gly Arg
1      5      10      15
Leu Val Thr Arg Ala Ala Phe Asn Ser Gly Lys Val Asp Ile Val Ala
      20      25      30
Ile Asn Asp Pro Phe Ile Asp Leu Asn Tyr Met Val Tyr Met Phe Gln
      35      40      45
Tyr Asp Ser Thr His Gly Lys Phe His Gly Thr Val Lys Ala Glu Asn
      50      55      60
Gly Lys Leu Val Ile Asn Gly Asn Pro Ile Thr Ile Phe Gln Glu Arg
      65      70      75      80
Asp Pro Ser Lys Ile Lys Trp Gly Asp Ala Gly Ala Glu Tyr Val Val
      85      90      95
Glu Ser Thr Gly Val Phe Thr Thr Met Gly Lys Ala Gly Ala His Leu
      100      105      110
Gln Gly Gly Ala Lys Arg Val Ile Ile Ser Ala Pro Ser Ala Asp Ala
      115      120      125
Pro Met Phe Val Met Gly Val Asn His Glu Lys Tyr Asp Asn Ser Leu
      130      135      140
Lys Ile Ile Ser Asn Ala Ser Cys Thr Thr Asn Cys Leu Ala Pro Leu
      145      150      155      160
Ala Lys Val Ile His Asp Asn Phe Gly Ile Val Glu Gly Leu Met Thr
      165      170      175
Thr Val His Ala Ile Thr Ala Thr Gln Lys Thr Val Asp Gly Pro Ser
      180      185      190
Gly Lys Leu Trp Arg Asp Gly Arg Gly Ala Leu Gln Asn Ile Ile Pro
      195      200      205
Ala Ser Thr Gly Ala Ala Lys Ala Val Gly Lys Val Ile Pro Glu Leu
      210      215      220
Asn Gly Lys Leu Thr Gly Met Ala Phe Arg Val Pro Thr Ala Asn Val
      225      230      235      240
Ser Val Val Asp Leu Thr Cys Arg Leu Glu Lys Pro Ala Lys Tyr Asp
      245      250      255
Asp Ile Lys Lys Val Val Lys Gln Ala Ser Glu Gly Pro Leu Lys Gly
      260      265      270
Ile Leu Gly Tyr Thr Glu His Gln Val Val Ser Ser Asp Phe Asn Ser
      275      280      285
Asp Thr His Ser Ser Thr Phe Asp Ala Gly Ala Gly Ile Ala Leu Asn
      290      295      300
Asp His Phe Val Lys Leu Ile Ser Trp Tyr Asp Asn Glu Phe Gly Tyr
      305      310      315      320

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Ser Asn Arg Val Val Asp Leu Met Ala His Met Ala Ser Lys Glu
325 330 335

<210> 471

<211> 22

<212> DNA

<213> Artificial Sequence

<220>

<223> NAP4 Probe

<400> 471

tccgcctcag tcgcctcttt cg

22

<210> 472

<211> 19

<212> DNA

<213> Artificial Sequence

<220>

<223> NAP4 FOR PRIMER

<400> 472

tcggaagggc tccttcaaa

19

<210> 473

<211> 19

<212> DNA

<213> Artificial Sequence

<220>

<223> NAP4 REV PRIMER

<400> 473

caccgttgca gctcttggt

19

<210> 474

<211> 34

<212> DNA

<213> Artificial Sequence

Siemens 0022 Seq Listing.txt

<220>

<223> MRLP45 Probe

<400> 474

ctccattcc cctcatgcta taaaaagaac tacc

34

<210> 475

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> MRLP45 FOR PRIMER

<400> 475

ggctgctgga agctttgaag

20

<210> 476

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> MRLP45 REV PRIMER

<400> 476

tgagcaggat gggagagaac a

21

<210> 477

<211> 22

<212> DNA

<213> Artificial Sequence

<220>

<223> TCF2 Probe

<400> 477

caaaagctgg ccatggacgc ct

22

<210> 478

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> TCF2 FOR PRIMER

<400> 478

gcaggaagga ggaggcattc

20

<210> 479

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> TCF2 REV PRIMER

<400> 479

caggctgtga gtctggttgg a

21

<210> 480

<211> 25

<212> DNA

<213> Artificial Sequence

<220>

<223> ROK1 Probe

<400> 480

cagctggctt ccattttcct ggcct

25

<210> 481

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> ROK1 FOR PRIMER

<400> 481

tggcaaaact gggttcagag a

21

Siemens 0022 Seq Listing.txt

<210> 482

<211> 19

<212> DNA

<213> Artificial Sequence

<220>

<223> ROK1 REV PRIMER

<400> 482

tcggaccttg tgggatgtg

19

<210> 483

<211> 26

<212> DNA

<213> Artificial Sequence

<220>

<223> KRT1 Probe

<400> 483

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Siemens 0022 Seq Listing.txt

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<223> KRT6a/b Probe

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